EPA Region 5 Records Ctr.
330621

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 9/24/90 FIT Receipt Date 11/5/90 Review Completed 11/16/90

TO: D. Sullivan
FROM: C. Kouris
SUBJECT: Woodland Lake
PAN: IL01935A (1 hour charged for review) Case # 14751

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# 10	Low Soil	#	Low Soil
8	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status X Completed!!

_____ Incomplete, awaiting _____

FIT Data Review Findings:

Check Data Sheets for Transcription Errors

V Compounds were detected in sample(s); see enclosed sheet.

Book No. 9 Page No. _____ Date Sampled 8/21/90

0759:2

recycled paper

10/16 page 1 of 15

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10/31/90

SUBJECT: Review of Region V CLP Data Received for Review on Sept. 24, 1990

FROM: Curtis Ross, Director (5SCRL) Patrick J. Chuilla for 11/5
Central Regional Laboratory

TO: Data User: F 17

We have reviewed the data for the following case(s).

SITE NAME: WOODLAND LANDFILL (IL) SMO Case No. 14751

EPA Data Set No. _____ No. of Samples: 18 D.U./Activity Numbers 1

CRL No. _____

SMO Traffic No. ELY54 - 71

CLP Laboratory: CLAYTON Hrs. Required for Review: ~~17~~ 16.5 + 2 = 18.5

Following are our findings.

This case contains ten (10) soil samples and eight (8) water samples that were submitted for full organic analysis. Soil samples are ELY54-63, 54MS and 54MSD. Sample ELY58 was also used for MS/MSD analysis in the semi-volatile fraction. Water samples are ELY64-71, 64MS and 64MSD.

Samples ELY56 and 58 in the volatile fraction were analyzed past their hold time; data for these samples are qualified as estimated, J for positives and "UJ" for negatives. WHW 10/24

Sandra Fowler
October 22, 1990
Weston/ESAT
312-353-2960

( ) Data are acceptable for use.
(✓) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

Region V

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 14751 SITE Woodland Landfill (IL)

LABORATORY Clayton NO. OF SAMPLES/ MATRIX 18

SDG # EL454 REVIEWER (IF NOT ESD) Weston/ESAT

SOW# 2/88 REVIEWER'S NAME Sandra Foulko

DPO: ACTION _____ FYI _____ COMPLETION DATE _____

DATA ASSESSMENT SUMMARY

		VOA	BNA	PEST	OTHER
1.	HOLDING TIMES	O	O	O	
2.	GC/MS TUNE/INSTR. PERFORM.	O	O	O	
3.	CALIBRATIONS	O	O	O	
4.	BLANKS	O	O	O	
5.	SURROGATES	O	O	O	
6.	MATRIX SPIKE/DUP	O	O	O	
7.	OTHER QC	O	O	O	
8.	INTERNAL STANDARDS	O	O	O	
9.	COMPOUND IDENTIFICATION	O	O	O	
10.	SYSTEM PERFORMANCE	O	O	O	
11.	OVERALL ASSESSMENT	O	O	O	

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.

ACTION ITEMS: _____

AREAS OF CONCERN: VOA → Two samples were analyzed past hold time (EL454, 58) Data for these are qualified as estimated "J" for positives; "UJ" for negatives.

NOTABLE PERFORMANCE: _____

NARRATIVE

CONTRACTOR: Clayton **CASE:** 14751

HOLDING TIME

VOA: Water - All samples were analyzed within the specified holding time.

Soil - Samples ELY56 and 58 were analyzed past their holding times; data for these are qualified as estimates, J, for positive results and "UJ" for negative results.

SV: Water/Soil - All samples were extracted and analyzed within the specified holding times.

PEST/PCB: Water/Soil - All samples received for analysis were extracted and analyzed within the specified hold time.

The criteria for VOA analysis is 14 days. SemiVolatile analysis extraction is 7 days; Pesticide analysis extraction is 14 days; 40 days for analysis.

GC/MS TUNING

VOA: GC/MS tuning was performed as per specifications

SV: GC/MS tuning was performed as per specifications

CALIBRATIONS

Initial and Continuing

VOA & SV: Manual calculations for average RRF and % RSD agree with submitted laboratory data. The outliers that are outside the [illegible] have been included [illegible] SemiVolatile [illegible] [illegible] quantitation [illegible] criteria.

METHOD BLANK

VOA: Water - Volatile Method Blank EZ (VBLKEZ) was found to contain Methylene chloride and Acetone; no TICs were detected. Samples associated with this blank are ELY64-71, 64MS and 64MSD.

Soil - Volatile Method Blank EA (VBLKEA) was found to contain Methylene chloride and Acetone; no TICs were detected. Samples associated with this blank are ELY54,55,57,59-63,54MS and 54MSD. Volatile Method Blank EB (VBLKEB) was found to contain Methylene chloride and Acetone; two TICs were detected. Samples associated with this blank are ELY56 and 58.

SV: Water - SemiVolatile Blank W1(SBLKW1) was found to contain no target compounds or TICs. Samples associated with this blank are ELY64-71, 64MS and 64MSD.

Soil - SemiVolatile Blank S1 (SBLKS1) was found to contain no target compounds; eight TICs were detected. Samples associated with this blank are ELY54-57,59-63,54MS and 54MSD. SemiVolatile Blank M1 (SBLKM1) was found to contain no target compounds or TICs. Samples associated with this blank are ELY58,58MS and 58MSD.

The associated samples that contain the common contaminants (Methylene chloride and Acetone) at less than 10 times the amount in the related blank are qualified "U" undetected in those samples for these compounds.

PEST/PCB: Water - Pesticide Method Blank W1 (PBLKW1) contains no target compounds. Samples associated with this blank are ELY64-71,64MS and 64MSD.

Soil - Pesticide Method Blank S1 (PBLKS1) contains no target compounds. Samples associated with this blank are ELY54-63, 54MS and 54MSD.

SURROGATE RECOVERIES

VOA: All reported data are within QC limits.

SV: Surrogate values for Phenol-d5 are outside the QC limits for all samples ELY56 and 63.

PEST/PCB: All reported data are within QC limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample ELY54 was used for MS/MSD in the water samples and ELY54 and ELY56 (SemiVolatile fraction)was used for MS/MSD in the soil samples.

VOA: Water - MS and MSD %REC for 1,1-Dichloroethene were outside the QC limits.

Soil - All data reported are within the QC limits.

* SV: Water - All data reported are within the QC limits.

Soil - Two MS %REC (n-Nitroso-di-n-propylamine and 2,4-Dinitrotoluene); One MSD %REC (Pentachlorophenol) and two %RPDs (Pentachlorophenol and 4-dNitrophenol) are outside the QC limits.

PEST/PCB: All data reported are within the QC limits.

* All results for the unspiked samples are qualified as estimates, J, for positive results and "UJ for negative results.

DUPLICATE SAMPLES AND FIELD BLANKS

Sample ELY 66 is designated as the duplicate of sample ELY 65.

VOA - Both samples contained Methylene chloride and Acetone; no TIC were detected.

SV - Both samples were free of any target compounds and TICs.

PEST/PCB - Both samples were free of any target compounds.

Sample ELY 71 is designated as the field blank. All fractions were free of any contaminants.

INTERNAL STANDARDS

VOA: All internal standard areas and retention times are within QC limits.

SV: All internal standard areas and retention times are within QC limits.

PEST/PCB: See "Calibration" section.

COMPOUND IDENTIFICATION

After reviewing the mass spectrums and chromatographs, it appears that all compounds were properly identified.

COMPOUND QUANITIATION AND REPORTED DETECTION LIMITS

Analytical results were quantified using a dilution factor of one (1). Detection limits were corrected for this dilution factor before data was quantified.

SYSTEM PERFORMANCE

Initial calibrations, continuing calibration check and internal standard areas for this case remained within the QC limits during analysis of all sample fractions. All instrument systems were performing satisfactorily.

OTHER CASE SPECIFIC PROBLEMS

No other problems were detected with this data case.

Reviewed By Sandra Faulkner

Date October 22, 1990

Phone 313-553-2960

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 14751 CONTRACTOR Clayton

Water

Instrument # 5E	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/24/90 0104			8/27/90 0757											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone	.335	21.7		.515	53.7	J									
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	0.068	32.2	J	.083	22.1	J									
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate	.602	13.6		.760	26.3	J									
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone	.244	5.6	J	.282	15.6	J									
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VBLKEZ
ELY64-TI
ELY64MS
ELY64MSD

Reviewer's Initials/Date: SE 10/7/90

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 14751 Soil CONTRACTOR Clayton

Instrument # 5E	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/27/90 2114			8/27/90 0555			8/27/90 0006								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane															
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	.197	5.1	J	.152	22.8	J	.174	11.7	J						
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VBLKEA	VBLKEB
ELY54-55	ELY56
ELY57	ELY58
ELY59	
ELY60-63	
ELY54MS	
ELY54MSD	

Reviewer's Initials/Date: SE 10/17/90

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 14751 CONTRACTOR Clayton Water

Instrument # 1A	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME: [illegible]	[illegible]			[illegible]			[illegible]								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether		-													
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether	[illegible]	12.1		3.4[illegible]	[illegible]	J	2.445	6.5							
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

Reviewer Initials/Date: SF 10/17/92

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 14751 CONTRACTOR Clayton

Water

Instrument # 1F	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	[illegible]			[illegible]			[illegible]								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene		-													
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline	.116	51.1	J	.041	55.5	J	.042	61.8	J						
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: SF 10/17/90

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # [illegible] CONTRACTOR [illegible]

Instrument # [illegible]F	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	[illegible]	[illegible]		[illegible]	[illegible]										
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether		-													
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]									
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]										
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]									
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol	[illegible]	[illegible]		[illegible]	[illegible]	J									
4-Nitrophenol	[illegible]	[illegible]		[illegible]	[illegible]	J									
Dibenzofuran															

AFFECTED SAMPLES:

Reviewer Initials/Date: [illegible]

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 14751 CONTRACTOR Clayton

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	[illegible]			[illegible]											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene		-													
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]										
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]									
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: SF 10/17/90

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 14[illegible] CONTRACTOR [illegible]

Instrument # [illegible]	Init. Cal.			Cont. Cal. Soil			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9/4/[illegible] [illegible]														
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether		-													
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

[illegible]

Reviewer Initials/Date: [illegible]

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # _____ CONTRACTOR _____

Soil

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:															
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene		-													
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: _____

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # [illegible] CONTRACTOR [illegible]

Instrument # 4D	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	[illegible] 0331														
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether		-													
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

Reviewer Initials/Date: _____

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # _____ CONTRACTOR _____

Soil

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:															
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene		-													
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: _____

1

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates compound was analyzed but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330\ U)}{D} \times df \qquad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

$$\text{at 24\% moisture, } D = \frac{100-24}{100} - 0.76$$

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For soil sample subjected to GPC clean-up procedures, the CRQL is also multiplied by 2, to account for the fact that only half of the extract is recovered.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration is 3 ug/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for both dilution and percent moisture as discussed for the U flag, so that if a sample with 24% moisture and a 1 to 10 dilution factor has a calculated concentration of 300 ug/L and a sample quantitation limit of 430 ug/kg, report the concentration as 300J on Form I.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides $\geq$10 ng/ul in the final extract shall be confirmed by GC/MS.

2

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that TIC is a suspected aldol-condensation product.

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative. If more than one is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample.

ENVIRONM AL PROTECTION AGENCY
Office of Enforcement

F ON 5
230 Sout. earborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

Cooler # 122

PROJ. NO.: FIL0193
PROJECT NAME: F05-8909-044 14751
SAMPLERS: (Signature) Deborah Barrett

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8Oz Amber (NON-Preserved)						TAG NUMBER	LOW CONC MATRIX
ELY 64	8/21/90	1115		✓	MW1-MSD	4	4						5-086444-445; 448-449	groundwater
ELY 65	8/21/90	1210		✓	MW2	2	2						5-086457-458	groundwater
ELY 66	8/21/90	1210		✓	DVP	2	2						5-086464-465	groundwater
													LOT #: 80Z 0165033	
													(OTR IN COOLER 122)	

REMARKS

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Deborah Barrett	8/21/90 1830				
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) Wendy McLaughlin	Date / Time 08/22/90 0830	Remarks SHIPPED FED EX TO: CLAYTON AIRBILL: 816 012 6494 CUSTODY SEALS: 129017; 129018	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

015

14751.5-8-0

5- 09057

ENVIRONM AL PROTECTION AGENCY
Office of Enforcement

F ON 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

Cooler # 151

PROJ. NO.: FIL0193
PROJECT NAME: F05-8909-044 14751
SAMPLERS: (Signature) Deborah Barrett

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	80oz Amber (PEN/PES/RCB)						REMARKS: TAG NUMBER	REMARKS: LOW CONC MATRIX
ELY67	8/21/90	1250		✓	MW3	2	2						5-086470-471	groundwater
ELY68	8/21/90	1405		✓	MW4	2	2						5-086477-478	groundwater
ELY69	8/21/90	1455		✓	MW5	2	2						5-086484-485	groundwater
ELY70	8/21/90	1535		✓	MW6	2	2						5-086491-492	groundwater
													LOT #: 80oz AMBER 0165033	
													COTR IN COOLER: 122	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Deborah Barrett	8/21/90 1830				
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) Wendy McLaughlin	Date / Time 08/22/90 0830	Remarks: SHIPPED FED EX TO: CLAYTON AIRBILL: 8160126494 CUSTODY SEALS: 129019, 129020	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 09058

016

ENVIRONM AL PROTECTION AGENCY
Office of Enforcement

F ION 5
230 Sou eerborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

Cooler# 242

PROJ. NO.: FIL0193
PROJECT NAME: F05-8909-044 14751
SAMPLERS: (Signature) Deborah Barrett

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	40 ML VOA'S (HCL)	8 OZ AMBER (NON/PEST/PCB)						REMARKS: TAG NUMBERS	REMARKS: LOW CONC MATRIX
ELY64	8/21/90	1115		✓	MW1-MSD	6	6							5-086446-447; 5-086450-453	groundwater
ELY65	8/21/90	1210		✓	MW2	2	2							5-086459-460	groundwater
ELY66	8/21/90	1210		✓	~~MW3~~ DB DUP	2	2							5-086466; 5-086502	groundwater
ELY67	8/21/90	1250		✓	MW3	2	2							5-086472-473	groundwater
ELY68	8/21/90	1405		✓	MW4	2	2							5-086479-480	groundwater
ELY69	8/21/90	1455		✓	MW5	2	2							5-086486-487	groundwater
ELY70	8/21/90	1535		✓	MW6	2	2							5-086493-494	groundwater
ELY71	8/21/90	1050		✓	BLANK	4	2	2						5-086500-501	groundwater
														LOT #'S: 40ML B0193033	
														8OZ 0165033	
														(LOTR IN COOLER: 122)	

017

14751 - 5 - 8

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Deborah Barrett	8/21/90 1830				
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	
		Wendy Mauchla	08/22/90 0830	SHIPPED FED EX TO: CLAYTON AIRBILL: 8160126494 CUSTODY SEALS: 129021; 129022	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 09059

ENVIRONM AL PROTECTION AGENCY
Office of Enforcement

F ON 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: FIL0193
PROJECT NAME: F05-B909-044 14751
SAMPLERS: (Signature) Deborah Barrett

Cooler # ~~122~~ DB 168

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	8oz (ABN/PEST/PCB)	120mL VOA					TAG NUMBER	REMARKS: LOW CONC MATRIX
ELY54	8/21/90	1218		✓	S1	3	1	2					5-086402-404	Soil
ELY55	8/21/90	1228		✓	S2	3	1	2					5-086406-408	Soil
ELY56	8/21/90	1243		✓	S3	3	1	2					5-086410-412	Soil
ELY57	8/21/90	1259		✓	S4	3	1	2					5-086414-416	Soil
ELY58	8/21/90	1420		✓	S5	3	1	2					5-086418-420	Soil
ELY59	8/21/90	1435		✓	S6	3	1	2					5-086422-424	Soil
ELY60	8/21/90	1445		✓	S7	3	1	2					5-086426-428	Soil
ELY61	8/21/90	1535		✓	S8	3	1	2					5-086430-432	Soil
ELY62	8/21/90	1600		✓	S9	3	1	2					5-086434-436	Soil
ELY63	8/21/90	1625		✓	S10	3	1	2					5-086438-440	Soil
													LOT#'s: 8oz 0164023 S1-S10	
													120mL W0085013 S1-S6	
													120mL W0176013 S7-S10	
													COTR IN COOLER #: 122	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Deborah Barrett	8/21/90 1830				
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	
		Wendy Mohuchla	08/22/90 0830	SHIPPED FED EX TO: CLAYTON AIRBILL: 816012 6494 CUSTODY SEALS: 129013, 129014	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

018

14751 5 1 8 5 0 2

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

EPA

Organic Traffic Report
(For CLP Use Only)

Case Number: 14751
SAS No. (if applicable): N/A

1. Sample Description *(Enter in Column A)*
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (SAS)
   7. Waste (SAS)
   8. Other (SAS) *(Specify)*

2. Region Number: V
Sampling Co.: FIT
Sampler (Name): Donald Barrett
3. Ship To: CLAYTON ENV. CONSULTANTS, 22345 Heimel Drive, Novi, MI 48050, Attn: Dan Nelson

4. Date Shipped: 8/21/90
Airbill Number: 8160126494
Carrier: F

Triple volume required for matrix spike/duplicate aqueous sample.
Ship medium and high concentration samples in paint cans.
See reverse for additional instructions.

5. Date Received: 08/22/90 Received by: Wendy M Blanchard
Laboratory Contract Number: 68-D9-0036
Unit Price: 810.00
6. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis VOA	BNA	Pest/PCB	(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below) Solid	Water—MIS Liq.	Non Water—MIS Liq.
ELY54	5	L	x	x	x		S1	8/21/90 [illegible]	MELF50	Intact Ice			
ELY55	5	L	x	x	x		S2	8/21/90 [illegible]	MELF51	present			
ELY56	5	L	x	x	x		S3	8/21/90 [illegible]	MELF52				
ELY57	5	L	x	x	x		S4	8/21/90 1159	MELF53				
ELY58	5	L	x	x	x		S5	8/21/90 1420	MELF54				
ELY59	5	L	x	x	x		S6	8/21/90 1435	MELF55				
ELY60	5	L	x	x	x		S7	8/21/90 1415	MELF56				
ELY61	5	L	x	x	x		S8	8/21/90 1335	MELF57				
ELY62	5	L	x	x	x		S9	8/21/90 1600	MELF58				
ELY63	5	L	x	x	x		S10	8/21/90 1625	MELF59				
ELY64	2	L	x	x	x	MSD	MW1	8/21/90 1115	90FS24567				
ELY65	2	L	x	x	x		MW2	8/21/90 1210	90FS24568				
ELY66	2	L	x	x	x		DUP	8/21/90 1210	90FS24D68				
ELY67	2	L	x	x	x		MW3	8/21/90 1250	90F[illegible]24569				
ELY68	2	L	x	x	x		MW4	8/21/90 1405	90F[illegible]24570				
ELY69	2	L	x	x	x		MW5	8/21/90 1455	90F[illegible]24571				
ELY70	2	L	x	x	x		MW6	8/21/90 1535	90F[illegible]72				
*ELY71	4	L	x	x	x	BLANK	BLANK	8/21/90 1650	90F[illegible]3K76				
* SDG Final Sample on 08/22/90													
						SHIPMENT (15) / ~~15~~ NOT COMPLETE							

014

14751.5-84-01

Midwestern Operations

22345 Roethel Drive
Novi, MI 48050
(313) 344-1770
Fax (313) 344-2654

Clayton
ENVIRONMENTAL
CONSULTANTS

CASE NARRATIVE

Case No.: 14751
EPA Sample Nos.: ELY54-71
SDG No.: ELY54
Contract No.: 68-D9-0035

Case Summary

Case 14751 was received on August 22, 1990, and consisted of 10 soil samples and 8 water samples for full organic analysis.

The Hewlett Packard GC/MS data system Clayton uses has a combined NBS/WILEY library. The data system prints the mass spectra for all tentatively identified compounds (TIC) and the top three library matches. When no library matches are found, the data system prints "NO DATA BASE ENTRIES RETRIEVED."

Standards

The instrument was tuned to meet the abundance criteria for BFB and DFTPP before any standards, blanks, or samples were analyzed. Initial and continuing calibration data of the specific performance check compounds (SPCC) and continuing calibration check compounds (CCC) for volatile and semivolatile compounds are within the contract-required quality control (QC) limits.

Pesticide Linearity and Degradation

Linearity and degradation criteria are within the contract-required QC limits for megabore capillary column which was used for quantitation.

Percent-difference and retention time shifts for all pesticide compounds were within contract-required criteria for the primary run which was used for quantitation.

Dibutylchlorendate surrogate recoveries in the pesticide fraction were calculated using the Evaluation C standard from the primary analysis.

Surrogate Recoveries

Surrogate recovery results are reported on Form II and can be found in the QC summary data package.

Clayton
ENVIRONMENTAL
CONSULTANTS

Matrix Spike and Matrix Spike Duplicate

Matrix spike and matrix spike duplicate recovery data are reported on Form III and can be found in the QC summary data package.

Blanks

The method blanks with corresponding samples are reported on the method blank summary Form IV and can be found in the QC summary data package.

I certify that this data package is in compliance with the terms and the conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Todd J. Outhouse
Project Leader, CLP

09-21-90
Date

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	ELY64	100	98	93		0
02	ELY65	95	95	88		0
03	ELY66	92	97	82		0
04	ELY67	94	91	88		0
05	ELY68	94	92	88		0
06	ELY69	95	88	86		0
07	ELY70	96	93	86		0
08	ELY71	91	87	82		0
09	ELY64MS	94	93	84		0
10	ELY64MSD	94	94	86		0
11	VBLKEZ	97	94	93		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(88-110)
S2 (BFB)	= Bromofluorobenzene	(86-115)
S3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

14751.5-100-02

2B
SOIL VOLATILE SURROGATE RECOVERY

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	ELY54	98	93	97		0
02	ELY55	98	87	88		0
03	ELY56	103	89	90		0
04	ELY57	101	87	87		0
05	ELY58	105	89	91		0
06	ELY59	94	89	84		0
07	ELY60	100	89	99		0
08	ELY61	94	78	79		0
09	ELY62	105	91	104		0
10	ELY63	96	81	86		0
11	ELY54MS	102	95	102		0
12	ELY54MSD	101	94	102		0
13	VBLKEA	96	94	100		0
14	VBLKEB	91	91	87		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

14751 · 5 -300-01

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	ELY64	60	60	86	26	46	68		0
02	ELY65	68	63	82	21	38	59		0
03	ELY66	65	67	88	23	38	61		0
04	ELY67	66	62	87	22	41	60		0
05	ELY68	64	63	103	18	33	52		0
06	ELY69	68	66	81	22	37	71		0
07	ELY70	50	56	70	18	29	50		0
08	ELY71	70	67	84	24	39	59		0
09	ELY64MS	35	69	94	23	39	71		0
10	ELY64MSD	68	64	89	23	42	74		0
11	SBLKW1	67	67	82	24	43	68		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

14751 • 5-300-02

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	ELY54	100	101	110	95	88	78		0
02	ELY55	111	94	116	106	119	83		0
03	ELY56	102	114	112	115 *	81	92		1
04	ELY57	99	108	116	110	103	95		0
05	ELY59	95	88	106	84	97	84		0
06	ELY60	101	92	119	112	102	97		0
07	ELY61	105	115	119	112	117	109		0
08	ELY62	103	106	108	111	82	95		0
09	ELY63	109	104	114	116 *	109	117		1
10	ELY54MS	104	93	120	99	92	81		0
11	ELY54MSD	101	96	115	95	94	88		0
12	SBLKS1	91	100	114	111	90	95		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

14751 • 5 -300-03

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	ELY58	45	56	75	53	47	69		0
02	ELY58MS	90	88	100	92	87	103		0
03	ELY58MSD	78	79	105	83	83	60		0
04	SBLKM1	52	56	92	51	55	74		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

14751 · 5-300-01

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	PBLKW1	105	0
02	ELY64	104	0
03	ELY65	99	0
04	ELY66	107	0
05	ELY67	102	0
06	ELY68	102	0
07	ELY69	100	0
08	ELY70	101	0
09	ELY71	108	0
10	ELY64MS	102	0
11	ELY64MSD	102	0

ADVISORY
QC LIMITS
S1 (DBC) = Dibutlychlorendate (24-154)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

RH09/14/90

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
01	PBLKS1	92	0
02	ELY54	106	0
03	ELY55	114	0
04	ELY56	92	0
05	ELY57	99	0
06	ELY58	81	0
07	ELY59	104	0
08	ELY60	94	0
09	ELY61	88	0
10	ELY62	90	0
11	ELY63	101	0
12	ELY54MS	97	0
13	ELY54MSD	84	0

S1 (DBC) = Dibutlychlorendate ADVISORY QC LIMITS (20-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

RH 09/13/90

FORM II PEST-2 1/87 Rev.

14751 · 5-101-001

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY64

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	26.3	53 *	61-145
Trichloroethene	50.0	0	39.6	79	71-120
Benzene	50.0	0	38.3	77	76-127
Toluene	50.0	0	40.2	80	76-125
Chlorobenzene	50.0	0	41.4	83	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	29.0	58 *	-9	14	61-145
Trichloroethene	50.0	41.0	82	-4	14	71-120
Benzene	50.0	41.7	83	-8	11	76-127
Toluene	50.0	44.1	88	-10	13	76-125
Chlorobenzene	50.0	44.7	89	-7	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS:

14751.5-101-02

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY54 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	58.1	0	54.7	94	59-172
Trichloroethene	58.1	0	54.8	94	62-137
Benzene	58.1	0	57.6	99	66-142
Toluene	58.1	0	58.3	100	59-139
Chlorobenzene	58.1	0	55.6	96	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	58.1	56.9	98	-4	22	59-172
Trichloroethene	58.1	55.1	95	-1	24	62-137
Benzene	58.1	57.9	100	-1	21	66-142
Toluene	58.1	59.1	102	-2	21	59-139
Chlorobenzene	58.1	57.2	98	-2	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

14751 • 5 -201-03

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

.ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY58 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	435000	0	360000	83	26- 90
2-Chlorophenol	435000	0	347000	80	25-102
1,4-Dichlorobenzene	217000	0	216000	100	28 104
N-Nitroso-di-n-prop. (1)	217000	0	294000	136 *	41 126
1,2,4-Trichlorobenzene	217000	0	222000	102	38 107
4-Chloro-3-methylphenol	435000	0	385000	89	26 103
Acenaphthene	217000	0	193000	89	31-137
4-Nitrophenol	435000	0	257000	59	11-114
2,4-Dinitrotoluene	217000	0	236000	109 *	28- 89
Pentachlorophenol	435000	0	150000	34	17-109
Pyrene	217000	0	216000	100	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	435000	337000	77	8	35	26- 90
2-Chlorophenol	435000	361000	83	-4	50	25-102
1,4-Dichlorobenzene	217000	183000	84	17	27	28 104
N-Nitroso-di-n-prop. (1)	217000	206000	95	35	38	41 126
1,2,4-Trichlorobenzene	217000	187000	86	17	23	38 107
4-Chloro-3-methylphenol	435000	305000	70	24	33	26 103
Acenaphthene	217000	176000	81	9	19	31-137
4-Nitrophenol	435000	109000	25	81 *	50	11-114
2,4-Dinitrotoluene	217000	153000	71	42	47	28- 89
Pentachlorophenol	435000	58300	13 *	89 *	47	17-109
Pyrene	217000	236000	109	-9	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 11 outside limits
Spike Recovery: 3 out of 22 outside limits

OMMENTS:

14751 • 5 -301-02

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY54 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	7760	0	7480	96 *	26- 90
2-Chlorophenol	7760	0	6140	79	25-102
1,4-Dichlorobenzene	3880	0	3400	88	28 104
N-Nitroso-di-n-prop. (1)	3880	0	4200	108	41 126
1,2,4-Trichlorobenzene	3880	0	3710	96	38 107
4-Chloro-3-methylphenol	7760	0	6940	89	26 103
Acenaphthene	3880	0	3650	94	31-137
4-Nitrophenol	7760	0	7620	98	11-114
2,4-Dinitrotoluene	3880	0	3170	82	28- 89
Pentachlorophenol	7760	0	7610	98	17-109
Pyrene	3880	0	4170	108	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	7760	6510	84	13	35	26- 90
2-Chlorophenol	7760	6800	88	-11	50	25-102
1,4-Dichlorobenzene	3880	3360	87	1	27	28 104
N-Nitroso-di-n-prop. (1)	3880	4200	108	0	38	41 126
1,2,4-Trichlorobenzene	3880	3800	98	-2	23	38 107
4-Chloro-3-methylphenol	7760	6790	88	1	33	26 103
Acenaphthene	3880	3820	98	-4	19	31-137
4-Nitrophenol	7760	7990	103	-5	50	11-114
2,4-Dinitrotoluene	3880	3230	83	-1	47	28- 89
Pentachlorophenol	7760	7720	99	-1	47	17-109
Pyrene	3880	4350	112	-4	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS:

14751 · 5 -201-01

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY64

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200	0	49.8	25	12- 86
2-Chlorophenol	200	0	126	63	27-123
1,4-Dichlorobenzene	100	0	69.0	69	36 97
N-Nitroso-di-n-prop. (1)	100	0	67.0	67	41 116
1,2,4-Trichlorobenzene	100	0	68.9	69	39 98
4-Chloro-3-methylphenol	200	0	134	67	23 97
Acenaphthene	100	0	69.5	70	46-118
4-Nitrophenol	200	0	51.9	26	10- 80
2,4-Dinitrotoluene	100	0	72.6	73	24- 96
Pentachlorophenol	200	0	184	92	9-103
Pyrene	100	0	97.0	97	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	50.1	25	0	42	12- 86
2-Chlorophenol	200	131	66	-5	40	27-123
1,4-Dichlorobenzene	100	65.2	65	6	28	36 97
N-Nitroso-di-n-prop. (1)	100	64.7	65	3	38	41 116
1,2,4-Trichlorobenzene	100	70.0	70	-1	28	39 98
4-Chloro-3-methylphenol	200	142	71	-6	42	23 97
Acenaphthene	100	63.4	63	11	31	46-118
4-Nitrophenol	200	39.1	20	26	50	10- 80
2,4-Dinitrotoluene	100	60.4	60	20	38	24- 96
Pentachlorophenol	200	194	97	-5	50	9-103
Pyrene	100	97.0	97	0	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

OMMENTS:

14751 · 5-301-01

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY64

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.200	0	0.164	82	56-123
Heptachlor	0.200	0	0.181	90	40-131
Aldrin	0.200	0	0.172	86	40-120
Dieldrin	0.500	0	0.466	93	52-126
Endrin	0.500	0	0.488	98	56-121
4,4'-DDT	0.500	0	0.490	98	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.200	0.167	84	-2	15	56-123
Heptachlor	0.200	0.186	93	-3	20	40-131
Aldrin	0.200	0.171	86	0	22	40-120
Dieldrin	0.500	0.474	95	-2	18	52-126
Endrin	0.500	0.503	101	-3	21	56-121
4,4'-DDT	0.500	0.508	102	-4	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

RH 09/14/90

FORM III PEST-1 8/87 Rev.

14751 · 5 -301-02

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix Spike - EPA Sample No.: ELY54 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	61.9	0	39.8	64	46-127
Heptachlor	61.9	0	42.5	69	35-130
Aldrin	61.9	0	44.4	72	34-132
Dieldrin	155	0	127	82	31-134
Endrin	155	0	141	91	42-139
4,4'-DDT	155	0	136	88	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	61.9	33.6	54	17	50	46-127
Heptachlor	61.9	37.2	60	14	31	35-130
Aldrin	61.9	38.7	63	13	43	34-132
Dieldrin	155	118	76	8	38	31-134
Endrin	155	133	86	6	45	42-139
4,4'-DDT	155	122	79	11	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

✓ RH 09/13/90

14751.5-102-01

4A
VOLATILE METHOD BLANK SUMMARY

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab File ID: E1781 Lab Sample ID: VBLKEZ

Date Analyzed: 08/27/90 Time Analyzed: 0909

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: 5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELY64	841114	E1782	1014
02	ELY65	841120	E1783	1101
03	ELY66	841122	E1784	1147
04	ELY67	841124	E1785	1233
05	ELY68	841126	E1786	1319
06	ELY69	841128	E1787	1405
07	ELY70	841130	E1790	1633
08	ELY71	841132	E1791	1719
09	ELY64MS	841114	E1788	1455
10	ELY64MSD	841114	E1789	1547

COMMENTS:

14751.5-102-02

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab File ID: E1807 Lab Sample ID: VBLKEA

Date Analyzed: 08/28/90 Time Analyzed: 0701

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELY54	841094	E1808	0811
02	ELY55	841096	E1818	1649
03	ELY57	841100	E1816	1533
04	ELY59	841104	E1815	1442
05	ELY60	841106	E1811	1106
06	ELY61	841108	E1814	1342
07	ELY62	841110	E1812	1200
08	ELY63	841112	E1813	1250
09	ELY54MS	841094	E1809	0916
10	ELY54MSD	841094	E1810	1003

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab File ID: E1824 Lab Sample ID: VBLKEB

Date Analyzed: 08/29/90 Time Analyzed: 0130

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 5E

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ELY56	841098	E1825	0305
02	ELY58	841102	E1826	0357

COMMENTS: INST ID 5E
VBLKEB 5GM

14751 · 5 - 202 - 02

4B

SEMIVOLATILE METHOD BLANK SUMMARY

5 BLKS1 8/24/90

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab File ID: F0418 Lab Sample ID: 841144

Date Extracted: 08/24/90 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 08/31/90 Time Analyzed: 0338

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: 6F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ELY54	841134	F0419	08/31/90
02	ELY55	841135	F0422	08/31/90
03	ELY56	841136	F0423	08/31/90
04	ELY57	841137	F0424	08/31/90
05	ELY59	841139	F0425	08/31/90
06	ELY60	841140	F0426	08/31/90
07	ELY61	841141	F0427	08/31/90
08	ELY62	841142	F0428	08/31/90
09	ELY63	841143	F0429	08/31/90
10	ELY54MS	841134	F0420	08/31/90
11	ELY54MSD	841134	F0421	08/31/90

COMMENTS:

14751 · 5-300-03

SBLK M1

4B

SEMIVOLATILE METHOD BLANK SUMMARY

ab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab File ID: D9099 Lab Sample ID: 841144

Date Extracted: 08/28/90 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 09/04/90 Time Analyzed: 2044

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: 4D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ELY58	841138	D9100	09/04/90
02	ELY58MS	841138	D9124	09/06/90
03	ELY58MSD	841138	D9102	09/04/90

COMMENTS:

14751 • 5 -202-01

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab File ID: A0390 Lab Sample ID: 841163

Date Extracted: 08/24/90 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 08/27/90 Time Analyzed: 1627

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: 1A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ELY64	841145	A0391	08/27/90
02	ELY65	841149	A0394	08/27/90
03	ELY66	841151	A0395	08/27/90
04	ELY67	841153	A0396	08/27/90
05	ELY68	841155	A0397	08/27/90
06	ELY69	841157	A0398	08/28/90
07	ELY70	841159	A0402	08/28/90
08	ELY71	841161	A0403	08/28/90
09	ELY64MS	841147	A0392	08/27/90
10	ELY64MSD	841147	A0393	08/27/90

COMMENTS:

14751 · 5-302-01

PBLKW1 10/22/90

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab Sample ID: 841164 Lab File ID: _____

Matrix:(soil/water) WATER Level:(low/med) LOW

Date Extracted: 08/23/90 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed (1): 08/24/90 Date Analyzed (2): _____

Time Analyzed (1): 2159 Time Analyzed (2): _____

Instrument ID (1): D082 Instrument ID (2): _____

GC Column ID (1): RTX-35 GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELY64	841146	08/24/90	
02	ELY65	841150	08/25/90	
03	ELY66	841152	08/25/90	
04	ELY67	841154	08/25/90	
05	ELY68	841156	08/25/90	
06	ELY69	841158	08/25/90	
07	ELY70	841160	08/25/90	
08	ELY71	841162	08/25/90	
09	ELY64MS	841148MS	08/24/90	
10	ELY64MSD	841148MSD	08/25/90	

COMMENTS:

862

RH 09/14/90

FORM IV PEST 1/87 Rev.

14751 · 5-302-02

PBLKS1 SQ 10/22/90

4C

PESTICIDE METHOD BLANK SUMMARY

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Lab Sample ID: 841144 Lab File ID: _____

Matrix:(soil/water) SOIL Level:(low/med) LOW

Date Extracted: 08/24/90 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed (1): 08/28/90 Date Analyzed (2): _____

Time Analyzed (1): 1958 Time Analyzed (2): _____

Instrument ID (1): D092 Instrument ID (2): _____

GC Column ID (1): DB-5 GC Column ID (2): _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ELY54	841134	08/28/90	
02	ELY55	841135	08/28/90	
03	ELY56	841136	08/29/90	
04	ELY57	841137	08/29/90	
05	ELY58	841138	08/29/90	
06	ELY59	841139	08/29/90	
07	ELY60	841140	08/29/90	
08	ELY61	841141	08/29/90	
09	ELY62	841142	08/29/90	
10	ELY63	841143	08/29/90	
11	ELY54MS	841134MS	08/28/90	
12	ELY54MSD	841134MSD	08/28/90	

COMMENTS:

FORM IV PEST

RH 09/13/90

1/87 Rev.

14751 · 5-132-01

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEZ

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1781

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	4	J
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751.5-133-01

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEZ

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1781

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751.5-132-02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEA

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: VBLKEA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1807

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	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	4	J
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751.5-133-02

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEA

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: VBLKEA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1807

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

14751.5-132-03

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEB

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: VBLKEB

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1824

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/29/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	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	5	
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751.5-133-03

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEB

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: VBLKEB

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1824

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	12.69	5.8	J
2.	Unknown	37.57	8.9	J

14751 · 5-232-01

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841163

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0390

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5-232-02

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841163

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0390

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 · 5-233-a

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841163

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0390

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87 Rev.

14751 · 5-232-03

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0418

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)Ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
100-51-6	Benzyl Alcohol	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
39638-32-9	bis(2-Chloroisopropyl)Ether	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-Di-n-Propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
65-85-0	Benzoic Acid	3200	U
111-91-1	bis(2-Chloroethoxy)Methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-Methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	3200	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethyl Phthalate	660	U
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U

14751 · 5-232-04

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0418

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
86-73-7	Fluorene	660	U
100-10-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-Methylphenol	3200	U
86-30-6	N-Nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
84-74-2	Di-n-Butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)Anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)Phthalate	660	U
117-84-0	Di-n-Octyl Phthalate	660	U
205-99-2	Benzo(b)Fluoranthene	660	U
207-08-9	Benzo(k)Fluoranthene	660	U
50-32-8	Benzo(a)Pyrene	660	U
193-39-5	Indeno(1,2,3-cd)Pyrene	660	U
53-70-3	Dibenz(a,h)Anthracene	660	U
191-24-2	Benzo(g,h,i)Perylene	660	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 1/87 Rev.

14751 · 5 - 233.02

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKS1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0418

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.40	38000	AJ
2.	C9H20 Hydrocarbon	4.47	510	J
3.	C9H20 Hydrocarbon	4.53	620	J
4.	C9H20 Hydrocarbon	4.67	440	J
5.	Unknown Ketone or Ester	5.38	750	J
6. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.95	4200	J
7.	C9H20 Hydrocarbon	6.68	670	J
8.	Unknown Ester or Ketone	7.62	280	J

14751 5-232-05

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKM1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D9099

Level: (low/med) MED Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/28/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/04/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	20000	U
111-44-4	bis(2-Chloroethyl)Ether	20000	U
95-57-8	2-Chlorophenol	20000	U
541-73-1	1,3-Dichlorobenzene	20000	U
106-46-7	1,4-Dichlorobenzene	20000	U
100-51-6	Benzyl Alcohol	20000	U
95-50-1	1,2-Dichlorobenzene	20000	U
95-48-7	2-Methylphenol	20000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	20000	U
106-44-5	4-Methylphenol	20000	U
621-64-7	N-Nitroso-Di-n-Propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	20000	U
65-85-0	Benzoic Acid	96000	U
111-91-1	bis(2-Chloroethoxy)Methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
120-82-1	1,2,4-Trichlorobenzene	20000	U
91-20-3	Naphthalene	20000	U
106-47-8	4-Chloroaniline	20000	U
87-68-3	Hexachlorobutadiene	20000	U
59-50-7	4-Chloro-3-Methylphenol	20000	U
91-57-6	2-Methylnaphthalene	20000	U
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	96000	U
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	96000	U
131-11-3	Dimethyl Phthalate	20000	U
208-96-8	Acenaphthylene	20000	U
606-20-2	2,6-Dinitrotoluene	20000	U

14751 · 5-233-06

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKM1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D9099

Level: (low/med) MED Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/28/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/04/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	96000	U
83-32-9	Acenaphthene	20000	U
51-28-5	2,4-Dinitrophenol	96000	U
100-02-7	4-Nitrophenol	96000	U
132-64-9	Dibenzofuran	20000	U
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
7005-72-3	4-Chlorophenyl-phenylether	20000	U
86-73-7	Fluorene	20000	U
100-10-6	4-Nitroaniline	96000	U
534-52-1	4,6-Dinitro-2-Methylphenol	96000	U
86-30-6	N-Nitrosodiphenylamine (1)	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
87-86-5	Pentachlorophenol	96000	U
85-01-8	Phenanthrene	20000	U
120-12-7	Anthracene	20000	U
84-74-2	Di-n-Butylphthalate	20000	U
206-44-0	Fluoranthene	20000	U
129-00-0	Pyrene	20000	U
85-68-7	Butylbenzylphthalate	20000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)Anthracene	20000	U
218-01-9	Chrysene	20000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20000	U
117-84-0	Di-n-Octyl Phthalate	20000	U
205-99-2	Benzo(b)Fluoranthene	20000	U
207-08-9	Benzo(k)Fluoranthene	20000	U
50-32-8	Benzo(a)Pyrene	20000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20000	U
53-70-3	Dibenz(a,h)Anthracene	20000	U
191-24-2	Benzo(g,h,i)Perylene	20000	U

(1) - Cannot be separated from Diphenylamine

14751 · 5-233-03

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKM1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D9099

Level: (low/med) MED Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/28/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/04/90

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-330-01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKW1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841164

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

Level: (low/med) LOW Date Received: 08/22/90 KWM 9-12-90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/24/90

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1003 09-21-90

~ RH 09/14/90

14751-5-330-02

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS1

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841144

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90 MW 9-12-90

% Moisture: not dec. __ dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	16	U
319-85-7	beta-BHC	16	U
319-86-8	delta-BHC	16	U
58-89-9	Lindane	16	U
76-44-8	Heptachlor	16	U
309-00-2	Aldrin	16	U
1024-57-3	Heptachlor epoxide	16	U
959-98-8	Endosulfan I	16	U
60-57-1	Dieldrin	32	U
72-55-9	4,4'-DDE	32	U
72-20-8	Endrin	32	U
33213-65-9	Endosulfan II	32	U
72-54-8	4,4'-DDD	32	U
1031-07-8	Endosulfan sulfate	32	U
50-29-3	4,4'-DDT	32	U
72-43-5	Methoxychlor	160	U
53494-70-5	Endrin ketone	32	U
5103-71-9	alpha-Chlordane	160	U
5103-74-2	gamma-Chlordane	160	U
8001-35-2	Toxaphene	320	U
12674-11-2	Aroclor-1016	160	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	160	U
53469-21-9	Aroclor-1242	160	U
12672-29-6	Aroclor-1248	160	U
11097-69-1	Aroclor-1254	320	U
11096-82-5	Aroclor-1260	320	U

RH 09/13/90

FORM I PEST 1/87 Rev.

14751 • 5 -110-01

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY54

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841094

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1808

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	~~5~~ 6	~~B~~ U sf 10/22/90
67-64-1	Acetone	14	~~B~~ U sf 10/22/90
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

14751.5-111-01

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY54

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841094

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1808

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY55

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841096

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1818

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 19 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	14	~~B~~ U cg 10/22/90
67-64-1	Acetone	15	~~B~~ U cg 10/22/90
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

14751 · 5-111-02

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY55

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841096

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1818

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 19 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-03

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY56

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841098

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1825

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 13 Date Analyzed: 08/29/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	10	~~B~~ U sg 10/22/90
67-64-1	Acetone	14	~~B~~ U sg 10/22/90
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	~~U~~ 2 OR sg 10/22/90
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	~~U~~ 3 OR sg 10/22/90
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	~~U~~ 1 OR sg 10/22/90
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

FORM I VOA 1/87 Rev.

14751 · 5-111-03

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY56

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841098

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1825

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 13 Date Analyzed: 08/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-04

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY57

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841100

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1816

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 9 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	17	~~B~~U 9/10/90
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	~~5~~	~~J~~ 9/10/90
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	~~5~~	~~J~~ 9/10/90
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	~~5~~	~~J~~ 9/10/90
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	~~5~~	~~J~~ 9/10/90
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5-111-04

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY57

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841100

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1816

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 9 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-05

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY58

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841102

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1826

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 76 Date Analyzed: 08/29/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	42	U
74-83-9	Bromomethane	42	U
75-01-4	Vinyl Chloride	42	U
75-00-3	Chloroethane	42	U
75-09-2	Methylene Chloride	27	~~B~~U 8/29/90
67-64-1	Acetone	87	~~B~~U 8/29/90
75-15-0	Carbon Disulfide	21	U
75-35-4	1,1-Dichloroethene	21	U
75-35-3	1,1-Dichloroethane	21	U
540-59-0	1,2-Dichloroethene (total)	21	U
67-66-3	Chloroform	21	U
107-06-2	1,2-Dichloroethane	21	U
78-93-3	2-Butanone	42	U
71-55-6	1,1,1-Trichloroethane	21	U
56-23-5	Carbon Tetrachloride	21	U
108-05-4	Vinyl Acetate	42	U
75-27-4	Bromodichloromethane	21	U
78-87-5	1,2-Dichloropropane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
79-01-6	Trichloroethene	21	U
124-48-1	Dibromochloromethane	21	U
79-00-5	1,1,2-Trichloroethane	21	U
71-43-2	Benzene	21	U
10061-02-6	Trans-1,3-Dichloropropene	21	U
75-25-2	Bromoform	21	U
108-10-1	4-Methyl-2-Pentanone	42	U
591-78-6	2-Hexanone	42	U
127-18-4	Tetrachloroethene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
108-88-3	Toluene	720	
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
100-42-5	Styrene	21	U
1330-20-7	Total Xylenes	21	U

14751 · 5 -111-05

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY58

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841102

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1826

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 76 Date Analyzed: 08/29/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	12.69	22	~~BJ~~ UJ

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-06

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY59

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841104

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1815

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 15 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	~~B~~ U 9/10/90
67-64-1	Acetone	12 ~~11~~	~~BJ~~ U 9/10/90
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6 ~~[illegible]~~	~~[illegible]~~ U 9/10/90
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	~~[illegible]~~	~~[illegible]~~ 9/10/90
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	~~[illegible]~~	~~[illegible]~~ 9/10/90
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	~~[illegible]~~	~~[illegible]~~ 9/10/90
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

14751 · 5-111-06

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY59

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841104

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1815

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 15 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-07

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY60

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841106

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1811

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 32 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	18	~~B~~ U 8/28/90
67-64-1	Acetone	41	~~B~~ U 8/28/90
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-35-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	15	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	Trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Total Xylenes	7	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ELY60

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841106

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1811

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 32 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	12.75	11	J

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14751 · 5-110-08

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY61

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841108

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1814

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 8 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	~~B~~ U 9/10/02
67-64-1	Acetone	13	~~B~~ U 9/10/02
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5-111-08

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY61

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841108

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1814

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 8 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-09

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY62

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841110

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1812

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	8	~~B~~ U 8/29/90
67-64-1	Acetone	13	~~B~~ U 8/29/90
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

14751 · 5 -111-09

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY62

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841110

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1812

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	Ethane, 1,1,2-trichloro-1,2,	12.77	10	J

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-10

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY63

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841112

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1813

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 17 Date Analyzed: 08/28/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	16	~~B~~ U 8/10/27/90
67-64-1	Acetone	19	~~B~~ U 8/10/27/90
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-35-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	Trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	[illegible]	~~J~~ 8/10/27/90
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Total Xylenes	6	U

14751 · 5-111-10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY63

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841112

Sample wt/vol: 5.0 (g/mL) G Lab File ID: E1813

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 17 Date Analyzed: 08/28/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-11

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY64

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841114

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1782

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	6	~~B~~U 9/12/90
67-64-1	Acetone	26	~~B~~U 9/12/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA 1/87 Rev.

14751 · 5 -\\\-\\

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY64

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841114

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1782

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-12

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY65

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841120

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1783

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	~~5~~	~~B~~ J U 9/10/22/90
67-64-1	Acetone	18	~~B~~ U 9/10/22/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5 -111-12

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY65

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841120

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1783

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-13

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY66

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841122

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1784

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	~~5~~ 4	~~B~~ J U 10/22/90
67-64-1	Acetone	15	~~B~~ U 10/22/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5-111-13

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY66

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841122

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1784

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-14

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY67

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841124

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1785

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	5 ~~4~~	~~B~~ U 8/10/27/90
67-64-1	Acetone	16	~~B~~ U 8/10/27/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

FORM I VOA 1/87 Rev.

14751 · 5 -111-14

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY67

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841124

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1785

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-15

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY68

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841126

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1786

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	8	~~B~~ U 8/17/90
67-64-1	Acetone	20	~~B~~ U 8/17/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5 ~~110~~ 111-15
08-21-90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ELY68

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841126

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1786

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

14751 · 5-110-16

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY69

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841128

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1787

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	5 ~~3~~	~~B~~ U 9/14/22/90
67-64-1	Acetone	17	~~B~~ U 9/14/22/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5 -111-16

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY69

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841128

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1787

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-110-17

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY70

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841130

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1790

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	~~5~~	~~BJ~~ U 9/10/22/90
67-64-1	Acetone	~~10~~	~~BJ~~ U 9/10/22/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5-111-17

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY70

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841130

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1790

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-160-18

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY71

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841132

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1791

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column: (pack/cap) PACK Dilution Factor: 1.0

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	~~5.8~~	~~B~~ U cy 10/22/90
67-64-1	Acetone	16	~~B~~ U cy 10/22/90
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Total Xylenes	5	U

14751 · 5-111-18

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY71

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841132

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: E1791

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ Date Analyzed: 08/27/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751.5-310-01

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY54

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841134

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0419

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)Ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
100-51-6	Benzyl Alcohol	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
39638-32-9	bis(2-Chloroisopropyl)Ether	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-Di-n-Propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
65-85-0	Benzoic Acid	3700	U
111-91-1	bis(2-Chloroethoxy)Methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-Methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethyl Phthalate	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U

14751 · 5 -310-02

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY54

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841134

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0419

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	770	U
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
86-73-7	Fluorene	770	U
100-10-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-Methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
84-74-2	Di-n-Butylphthalate	770	U
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	770	U
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)Anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	bis(2-Ethylhexyl)Phthalate	770	U
117-84-0	Di-n-Octyl Phthalate	770	U
205-99-2	Benzo(b)Fluoranthene	770	U
207-08-9	Benzo(k)Fluoranthene	770	U
50-32-8	Benzo(a)Pyrene	770	U
193-39-5	Indeno(1,2,3-cd)Pyrene	770	U
53-70-3	Dibenz(a,h)Anthracene	770	U
191-24-2	Benzo(g,h,i)Perylene	770	U

(1) - Cannot be separated from Diphenylamine

14751 • 5-211-01

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ELY54

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841134

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0419

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

Number TICs found: 11

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.42	47000	~~AB~~JU
2.	C9H20 Hydrocarbon	4.47	500	~~B~~JU
3.	C9H20 Hydrocarbon	4.55	500	~~B~~JU
4.	C9H20 Hydrocarbon	4.65	340	~~B~~JU
5.	Unknown Ester or Ketone	5.40	760	~~B~~JU
6.	C9H20 Hydrocarbon	5.65	2100	J
7. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.98	6400	~~B~~JU
8.	Unknown	6.60	430	J
9.	C9H20 Hydrocarbon	6.68	2900	~~B~~JU
10.	Unknown Ketone or Ester	7.03	740	J
11.	C9H20 Hydrocarbon	7.68	5900	J

14751 · 5 -2\0-03

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY55

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841135

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0422

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 19 dec. 13 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	760	U
111-44-4	bis(2-Chloroethyl)Ether	760	U
95-57-8	2-Chlorophenol	760	U
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
100-51-6	Benzyl Alcohol	760	U
95-50-1	1,2-Dichlorobenzene	760	U
95-48-7	2-Methylphenol	760	U
39638-32-9	bis(2-Chloroisopropyl)Ether	760	U
106-44-5	4-Methylphenol	760	U
621-64-7	N-Nitroso-Di-n-Propylamine	760	U
67-72-1	Hexachloroethane	760	U
98-95-3	Nitrobenzene	760	U
78-59-1	Isophorone	760	U
88-75-5	2-Nitrophenol	760	U
105-67-9	2,4-Dimethylphenol	760	U
65-85-0	Benzoic Acid	3700	U
111-91-1	bis(2-Chloroethoxy)Methane	760	U
120-83-2	2,4-Dichlorophenol	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U
91-20-3	Naphthalene	760	U
106-47-8	4-Chloroaniline	760	U
87-68-3	Hexachlorobutadiene	760	U
59-50-7	4-Chloro-3-Methylphenol	760	U
91-57-6	2-Methylnaphthalene	760	U
77-47-4	Hexachlorocyclopentadiene	760	U
88-06-2	2,4,6-Trichlorophenol	760	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	760	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethyl Phthalate	760	U
208-96-8	Acenaphthylene	760	U
606-20-2	2,6-Dinitrotoluene	760	U

14751 · 5 210-04

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY55

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841135

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0422

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 19 dec. 13 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	760	U
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	760	U
121-14-2	2,4-Dinitrotoluene	760	U
84-66-2	Diethylphthalate	760	U
7005-72-3	4-Chlorophenyl-phenylether	760	U
86-73-7	Fluorene	760	U
100-10-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-Methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine (1)	760	U
101-55-3	4-Bromophenyl-phenylether	760	U
118-74-1	Hexachlorobenzene	760	U
87-86-5	Pentachlorophenol	~~1900~~ 760	~~J~~ U
85-01-8	Phenanthrene	760	U
120-12-7	Anthracene	760	U
84-74-2	Di-n-Butylphthalate	760	U
206-44-0	Fluoranthene	760	U
129-00-0	Pyrene	760	U
85-68-7	Butylbenzylphthalate	760	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)Anthracene	760	U
218-01-9	Chrysene	760	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~150~~ 760	~~J~~ U
117-84-0	Di-n-Octyl Phthalate	760	U
205-99-2	Benzo(b)Fluoranthene	760	U
207-08-9	Benzo(k)Fluoranthene	760	U
50-32-8	Benzo(a)Pyrene	760	U
193-39-5	Indeno(1,2,3-cd)Pyrene	760	U
53-70-3	Dibenz(a,h)Anthracene	760	U
191-24-2	Benzo(g,h,i)Perylene	760	U

(1) - Cannot be separated from Diphenylamine

390

14751 · 5 -311-02

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ELY55

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841135

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0422

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 19 dec. 13 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123422	4-Hydroxy-4-methyl-2-pentano	4.42	41000	~~AB~~JU
2.		C9H20 Hydrocarbon	4.48	440	~~B~~JU
3.		C9H20 Hydrocarbon	4.57	760	~~B~~JU
4.		C9H20 Hydrocarbon	4.67	590	~~B~~JU
5.		Unknown Ester or Ketone	5.42	890	~~B~~JU
6.		C9H20 Hydrocarbon	5.67	4600	J
7.	4436753	3-Hexene-2,5-dione (8CI9CI)	5.97	3700	~~B~~JU
8.		Unknown	6.58	410	J
9.		C9H20 Hydrocarbon	6.70	3400	~~B~~JU
10.		C9H20 Hydrocarbon	7.72	8800	J

14751 • 5-310-05

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY56

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841136

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0423

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 13 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	760	U
111-44-4	bis(2-Chloroethyl)Ether	760	U
95-57-8	2-Chlorophenol	760	U
541-73-1	1,3-Dichlorobenzene	760	U
106-46-7	1,4-Dichlorobenzene	760	U
100-51-6	Benzyl Alcohol	760	U
95-50-1	1,2-Dichlorobenzene	760	U
95-48-7	2-Methylphenol	760	U
39638-32-9	bis(2-Chloroisopropyl)Ether	760	U
106-44-5	4-Methylphenol	760	U
621-64-7	N-Nitroso-Di-n-Propylamine	760	U
67-72-1	Hexachloroethane	760	U
98-95-3	Nitrobenzene	760	U
78-59-1	Isophorone	760	U
88-75-5	2-Nitrophenol	760	U
105-67-9	2,4-Dimethylphenol	760	U
65-85-0	Benzoic Acid	3700	U
111-91-1	bis(2-Chloroethoxy)Methane	760	U
120-83-2	2,4-Dichlorophenol	760	U
120-82-1	1,2,4-Trichlorobenzene	760	U
91-20-3	Naphthalene	760	U
106-47-8	4-Chloroaniline	760	U
87-68-3	Hexachlorobutadiene	760	U
59-50-7	4-Chloro-3-Methylphenol	760	U
91-57-6	2-Methylnaphthalene	760	U
77-47-4	Hexachlorocyclopentadiene	760	U
88-06-2	2,4,6-Trichlorophenol	760	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	760	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethyl Phthalate	760	U
208-96-8	Acenaphthylene	760	U
606-20-2	2,6-Dinitrotoluene	760	U

14751 · 5 -2\0-0C

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY56

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841136

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0423

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 13 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	760	U
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	760	U
121-14-2	2,4-Dinitrotoluene	760	U
84-66-2	Diethylphthalate	760	U
7005-72-3	4-Chlorophenyl-phenylether	760	U
86-73-7	Fluorene	760	U
100-10-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-Methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine (1)	760	U
101-55-3	4-Bromophenyl-phenylether	760	U
118-74-1	Hexachlorobenzene	760	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	760	U
120-12-7	Anthracene	760	U
84-74-2	Di-n-Butylphthalate	760	U
206-44-0	Fluoranthene	760	U
129-00-0	Pyrene	760	U
85-68-7	Butylbenzylphthalate	760	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)Anthracene	760	U
218-01-9	Chrysene	760	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~120~~ 760	~~J~~ U
117-84-0	Di-n-Octyl Phthalate	760	U
205-99-2	Benzo(b)Fluoranthene	760	U
207-08-9	Benzo(k)Fluoranthene	760	U
50-32-8	Benzo(a)Pyrene	760	U
193-39-5	Indeno(1,2,3-cd)Pyrene	760	U
53-70-3	Dibenz(a,h)Anthracene	760	U
191-24-2	Benzo(g,h,i)Perylene	760	U

(1) - Cannot be separated from Diphenylamine

14751 • 5-211-03

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY56

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841136

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0423

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 13 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.0

Number TICs found: 13

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.40	61000	ABJU 9/1/22/90
2.	C9H20 Hydrocarbon	4.47	690	BJU 9/1/22/90
3.	C9H20 Hydrocarbon	4.55	630	BJU 9/1/22/90
4.	C9H20 Hydrocarbon	4.67	480	BJU 9/1/22/90
5.	Unknown Ester or Ketone	5.42	820	BJU 9/1/22/90
6.	C9H20 Hydrocarbon	5.65	8100	J
7. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.97	3900	BJU 9/1/22/90
8. 3240093	5-Hexen-2-one, 5-methyl- (8C	6.12	320	J
9.	Unknown	6.60	660	J
10.	C9H20 Hydrocarbon	6.70	6200	BJU 9/1/22/90
11.	C9H20 Hydrocarbon	7.68	10000	J
12.	Unknown Hydrocarbon	16.74	310	J
13.	Unknown Hydrocarbon	16.80	440	J

14751 • 5 -210-07

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY57

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841137

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0424

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 9 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	730	U
111-44-4	bis(2-Chloroethyl)Ether	730	U
95-57-8	2-Chlorophenol	730	U
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
100-51-6	Benzyl Alcohol	730	U
95-50-1	1,2-Dichlorobenzene	730	U
95-48-7	2-Methylphenol	730	U
39638-32-9	bis(2-Chloroisopropyl)Ether	730	U
106-44-5	4-Methylphenol	730	U
621-64-7	N-Nitroso-Di-n-Propylamine	730	U
67-72-1	Hexachloroethane	730	U
98-95-3	Nitrobenzene	730	U
78-59-1	Isophorone	730	U
88-75-5	2-Nitrophenol	730	U
105-67-9	2,4-Dimethylphenol	730	U
65-85-0	Benzoic Acid	3500	U
111-91-1	bis(2-Chloroethoxy)Methane	730	U
120-83-2	2,4-Dichlorophenol	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U
91-20-3	Naphthalene	730	U
106-47-8	4-Chloroaniline	730	U
87-68-3	Hexachlorobutadiene	730	U
59-50-7	4-Chloro-3-Methylphenol	730	U
91-57-6	2-Methylnaphthalene	730	U
77-47-4	Hexachlorocyclopentadiene	730	U
88-06-2	2,4,6-Trichlorophenol	730	U
95-95-4	2,4,5-Trichlorophenol	3500	U
91-58-7	2-Chloronaphthalene	730	U
88-74-4	2-Nitroaniline	3500	U
131-11-3	Dimethyl Phthalate	730	U
208-96-8	Acenaphthylene	730	U
606-20-2	2,6-Dinitrotoluene	730	U

14751 · 5 -310-08

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY57

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841137

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0424

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 9 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3500	U
83-32-9	Acenaphthene	730	U
51-28-5	2,4-Dinitrophenol	3500	U
100-02-7	4-Nitrophenol	3500	U
132-64-9	Dibenzofuran	730	U
121-14-2	2,4-Dinitrotoluene	730	U
84-66-2	Diethylphthalate	730	U
7005-72-3	4-Chlorophenyl-phenylether	730	U
86-73-7	Fluorene	730	U
100-10-6	4-Nitroaniline	3500	U
534-52-1	4,6-Dinitro-2-Methylphenol	3500	U
86-30-6	N-Nitrosodiphenylamine (1)	730	U
101-55-3	4-Bromophenyl-phenylether	730	U
118-74-1	Hexachlorobenzene	730	U
87-86-5	Pentachlorophenol	3500	U
85-01-8	Phenanthrene	~~330~~	J
120-12-7	Anthracene	730	U
84-74-2	Di-n-Butylphthalate	730	U
206-44-0	Fluoranthene	~~430~~	J
129-00-0	Pyrene	~~400~~	J
85-68-7	Butylbenzylphthalate	~~140~~	J
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)Anthracene	~~210~~	J
218-01-9	Chrysene	~~250~~	J
117-81-7	bis(2-Ethylhexyl)Phthalate	~~490~~	J
117-84-0	Di-n-Octyl Phthalate	~~110~~	J
205-99-2	Benzo(b)Fluoranthene	~~230~~	J
207-08-9	Benzo(k)Fluoranthene	~~210~~	J
50-32-8	Benzo(a)Pyrene	~~210~~	J
193-39-5	Indeno(1,2,3-cd)Pyrene	~~180~~	J
53-70-3	Dibenz(a,h)Anthracene	730	U
191-24-2	Benzo(g,h,i)Perylene	~~170~~	J

(1) - Cannot be separated from Diphenylamine

14751 • 5-311-04

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ELY57

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841137

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0424

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 9 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.0

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.42	45000	AB~~J~~U 9/14/90
2.	C9H20 Hydrocarbon	4.57	460	B~~J~~U 9/14/90
3.	Unknown Ester or Ketone	5.42	570	~~B~~JU 9/14/90
4.	C9H20 Hydrocarbon	5.67	7800	J
5. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.95	2300	~~B~~J 9/14/90
6.	C9H20 Hydrocarbon	6.70	3800	~~B~~J 9/14/90
7.	C9H20 Hydrocarbon	7.67	5200	J
8.	C15H32 Hydrocarbon	14.27	440	J
9.	C16H34 Hydrocarbon	15.54	500	J
10.	C17H36 Hydrocarbon	16.74	540	J
11.	Unknown Hydrocarbon	16.80	830	J
12.	Unknown Hydrocarbon	17.99	600	J
13.	C22H46 Hydrocarbon	21.94	550	J
14.	Unknown Hydrocarbon	22.84	580	J
15.	Ester or Hexanedioic Acid	23.74	3700	J
16.	C25H52 Hydrocarbon	24.54	1000	J
17.	Unknown Hydrocarbon	25.36	750	J
18.	Unknown Hydrocarbon	26.14	650	J
19.	Unknown Hydrocarbon	26.89	1100	J
20.	Unknown Hydrocarbon	27.66	1300	J
21.	Unknown Hydrocarbon	28.49	810	J
22.	Unknown Hydrocarbon	29.47	970	J
23.	Unknown Hydrocarbon	30.61	760	J

FORM 1 SV-TIC 1/87 Rev.

14751 · 5 -21069

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY58

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841138

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D9100

Level: (low/med) MED Date Received: 08/22/90

% Moisture: not dec. 76 dec. 54 Date Extracted: 08/28/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/04/90

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	43000	U
111-44-4	bis(2-Chloroethyl)Ether	43000	U
95-57-8	2-Chlorophenol	43000	U
541-73-1	1,3-Dichlorobenzene	43000	U
106-46-7	1,4-Dichlorobenzene	43000	U
100-51-6	Benzyl Alcohol	43000	U
95-50-1	1,2-Dichlorobenzene	43000	U
95-48-7	2-Methylphenol	43000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	43000	U
106-44-5	4-Methylphenol	43000	U
621-64-7	N-Nitroso-Di-n-Propylamine	43000	U
67-72-1	Hexachloroethane	43000	U
98-95-3	Nitrobenzene	43000	U
78-59-1	Isophorone	43000	U
88-75-5	2-Nitrophenol	43000	U
105-67-9	2,4-Dimethylphenol	43000	U
65-85-0	Benzoic Acid	210000	U
111-91-1	bis(2-Chloroethoxy)Methane	43000	U
120-83-2	2,4-Dichlorophenol	43000	U
120-82-1	1,2,4-Trichlorobenzene	43000	U
91-20-3	Naphthalene	43000	U
106-47-8	4-Chloroaniline	43000	U
87-68-3	Hexachlorobutadiene	43000	U
59-50-7	4-Chloro-3-Methylphenol	43000	U
91-57-6	2-Methylnaphthalene	43000	U
77-47-4	Hexachlorocyclopentadiene	43000	U
88-06-2	2,4,6-Trichlorophenol	43000	U
95-95-4	2,4,5-Trichlorophenol	210000	U
91-58-7	2-Chloronaphthalene	43000	U
88-74-4	2-Nitroaniline	210000	U
131-11-3	Dimethyl Phthalate	43000	U
208-96-8	Acenaphthylene	43000	U
606-20-2	2,6-Dinitrotoluene	43000	U

14751 · 5 - 210-10

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY58

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841138

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D9100

Level: (low/med) MED Date Received: 08/22/90

% Moisture: not dec. 76 dec. 54 Date Extracted: 08/28/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/04/90

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	210000	U
83-32-9	Acenaphthene	43000	U
51-28-5	2,4-Dinitrophenol	210000	U
100-02-7	4-Nitrophenol	210000	U
132-64-9	Dibenzofuran	43000	U
121-14-2	2,4-Dinitrotoluene	43000	U
84-66-2	Diethylphthalate	43000	U
7005-72-3	4-Chlorophenyl-phenylether	43000	U
86-73-7	Fluorene	43000	U
100-10-6	4-Nitroaniline	210000	U
534-52-1	4,6-Dinitro-2-Methylphenol	210000	U
86-30-6	N-Nitrosodiphenylamine (1)	43000	U
101-55-3	4-Bromophenyl-phenylether	43000	U
118-74-1	Hexachlorobenzene	43000	U
87-86-5	Pentachlorophenol	210000	U
85-01-8	Phenanthrene	43000	U
120-12-7	Anthracene	43000	U
84-74-2	Di-n-Butylphthalate	43000	U
206-44-0	Fluoranthene	43000	U
129-00-0	Pyrene	43000	U
85-68-7	Butylbenzylphthalate	43000	U
91-94-1	3,3'-Dichlorobenzidine	86000	U
56-55-3	Benzo(a)Anthracene	43000	U
218-01-9	Chrysene	43000	U
117-81-7	bis(2-Ethylhexyl)Phthalate	43000	U
117-84-0	Di-n-Octyl Phthalate	43000	U
205-99-2	Benzo(b)Fluoranthene	43000	U
207-08-9	Benzo(k)Fluoranthene	43000	U
50-32-8	Benzo(a)Pyrene	43000	U
193-39-5	Indeno(1,2,3-cd)Pyrene	43000	U
53-70-3	Dibenz(a,h)Anthracene	43000	U
191-24-2	Benzo(g,h,i)Perylene	43000	U

(1) - Cannot be separated from Diphenylamine

14751 · 5 -311-05

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY58

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841138

Sample wt/vol: 1.0 (g/mL) G Lab File ID: D9100

Level: (low/med) MED Date Received: 08/22/90

% Moisture: not dec. 76 dec. 54 Date Extracted: 08/28/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 09/04/90

GPC Cleanup: (Y/N) N pH: 7.5 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 • 5 -310-11

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY59

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841139

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0425

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 15 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	780	U
111-44-4	bis(2-Chloroethyl)Ether	780	U
95-57-8	2-Chlorophenol	780	U
541-73-1	1,3-Dichlorobenzene	780	U
106-46-7	1,4-Dichlorobenzene	780	U
100-51-6	Benzyl Alcohol	780	U
95-50-1	1,2-Dichlorobenzene	780	U
95-48-7	2-Methylphenol	780	U
39638-32-9	bis(2-Chloroisopropyl)Ether	780	U
106-44-5	4-Methylphenol	780	U
621-64-7	N-Nitroso-Di-n-Propylamine	780	U
67-72-1	Hexachloroethane	780	U
98-95-3	Nitrobenzene	780	U
78-59-1	Isophorone	780	U
88-75-5	2-Nitrophenol	780	U
105-67-9	2,4-Dimethylphenol	780	U
65-85-0	Benzoic Acid	3800	U
111-91-1	bis(2-Chloroethoxy)Methane	780	U
120-83-2	2,4-Dichlorophenol	780	U
120-82-1	1,2,4-Trichlorobenzene	780	U
91-20-3	Naphthalene	780	U
106-47-8	4-Chloroaniline	780	U
87-68-3	Hexachlorobutadiene	780	U
59-50-7	4-Chloro-3-Methylphenol	780	U
91-57-6	2-Methylnaphthalene	780	U
77-47-4	Hexachlorocyclopentadiene	780	U
88-06-2	2,4,6-Trichlorophenol	780	U
95-95-4	2,4,5-Trichlorophenol	3800	U
91-58-7	2-Chloronaphthalene	780	U
88-74-4	2-Nitroaniline	3800	U
131-11-3	Dimethyl Phthalate	780	U
208-96-8	Acenaphthylene	780	U
606-20-2	2,6-Dinitrotoluene	780	U

14751 · 5 -310-18

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY59

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841139

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0425

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 15 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	780	U
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	780	U
121-14-2	2,4-Dinitrotoluene	780	U
84-66-2	Diethylphthalate	780	U
7005-72-3	4-Chlorophenyl-phenylether	780	U
86-73-7	Fluorene	780	U
100-10-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-Methylphenol	3800	U
86-30-6	N-Nitrosodiphenylamine (1)	780	U
101-55-3	4-Bromophenyl-phenylether	780	U
118-74-1	Hexachlorobenzene	780	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	780	U
120-12-7	Anthracene	780	U
84-74-2	Di-n-Butylphthalate	780	U
206-44-0	Fluoranthene	780	U
129-00-0	Pyrene	780	U
85-68-7	Butylbenzylphthalate	780	U
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	780	U
218-01-9	Chrysene	780	U
117-81-7	bis(2-Ethylhexyl)Phthalate	78 ~~340~~	BJ 8/14/92/90
117-84-0	Di-n-Octyl Phthalate	780	U
205-99-2	Benzo(b)Fluoranthene	780	U
207-08-9	Benzo(k)Fluoranthene	780	U
50-32-8	Benzo(a)Pyrene	780	U
193-39-5	Indeno(1,2,3-cd)Pyrene	780	U
53-70-3	Dibenz(a,h)Anthracene	780	U
191-24-2	Benzo(g,h,i)Perylene	780	U

(1) - Cannot be separated from Diphenylamine

14751.5-311-06

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY59

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841139

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0425

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 15 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

Number TICs found: 12

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.42	40000	A~~B~~JU 9/10/90
2.	Unknown	4.48	380	J
3.	C9H20 Hydrocarbon	4.55	390	~~B~~JU 9/10/90
4.	Unknown Ester or Ketone	5.40	580	~~B~~JU 9/10/90
5.	C9H20 Hydrocarbon	5.65	4200	J
6. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.93	2400	~~B~~JU 9/10/90
7.	Unknown	6.58	420	J
8.	C9H20 Hydrocarbon	6.68	2900	~~B~~JU 9/10/90
9.	C9H20 Hydrocarbon	7.67	4500	J
10.	C14H30 Hydrocarbon	16.80	400	J
11.	Unknown Hydrocarbon	21.94	320	J
12.	Unknown Hydrocarbon	27.64	360	J

14751 • 5-210-13

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY60

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841140

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0426

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 32 dec. 14 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)Ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
100-51-6	Benzyl Alcohol	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
39638-32-9	bis(2-Chloroisopropyl)Ether	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-Di-n-Propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
65-85-0	Benzoic Acid	3700	U
111-91-1	bis(2-Chloroethoxy)Methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-Methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethyl Phthalate	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U

14751 • 5-210-14

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY60

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841140

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0426

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 32 dec. 14 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	770	U
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
86-73-7	Fluorene	770	U
100-10-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-Methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	~~770~~ 200	~~U~~ J
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
84-74-2	Di-n-Butylphthalate	770	U
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	770	U
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)Anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~770~~ 330	~~U~~ J
117-84-0	Di-n-Octyl Phthalate	770	U
205-99-2	Benzo(b)Fluoranthene	770	U
207-08-9	Benzo(k)Fluoranthene	770	U
50-32-8	Benzo(a)Pyrene	770	U
193-39-5	Indeno(1,2,3-cd)Pyrene	770	U
53-70-3	Dibenz(a,h)Anthracene	770	U
191-24-2	Benzo(g,h,i)Perylene	770	U

(1) - Cannot be separated from Diphenylamine

500

14751 • 5-311-07

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY60

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841140

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0426

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 32 dec. 14 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.0

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.42	45000	ABJ
2.	C9H20 Hydrocarbon	4.47	490	BJ
3.	C9H20 Hydrocarbon	4.55	660	BJ
4.	C9H20 Hydrocarbon	4.67	540	BJ
5.	Unknown Ester or Ketone	5.40	920	BJ
6.	C9H20 Hydrocarbon	5.65	7200	J
7. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.97	3400	BJ
8.	Unknown	6.62	460	J
9.	C9H20 Hydrocarbon	6.72	5100	BJ
10.	C9H20 Hydrocarbon	7.03	1100	J
11.	C9H20 Hydrocarbon	7.72	8500	J
12.	Unknown Hydrocarbon	27.64	390	J
13.	Unknown Hydrocarbon	30.26	510	J
14.	Unknown	31.94	390	J

14751 • 5 -210-15

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY61

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841141

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0427

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 8 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)Ether	720	U
95-57-8	2-Chlorophenol	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
100-51-6	Benzyl Alcohol	720	U
95-50-1	1,2-Dichlorobenzene	720	U
95-48-7	2-Methylphenol	720	U
39638-32-9	bis(2-Chloroisopropyl)Ether	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-Di-n-Propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
65-85-0	Benzoic Acid	3500	U
111-91-1	bis(2-Chloroethoxy)Methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U
91-20-3	Naphthalene	720	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
59-50-7	4-Chloro-3-Methylphenol	720	U
91-57-6	2-Methylnaphthalene	720	U
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	3500	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	3500	U
131-11-3	Dimethyl Phthalate	720	U
208-96-8	Acenaphthylene	720	U
606-20-2	2,6-Dinitrotoluene	720	U

14751 · 5-3/8-16

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY61

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841141

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0427

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 8 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3500	U
83-32-9	Acenaphthene	720	U
51-28-5	2,4-Dinitrophenol	3500	U
100-02-7	4-Nitrophenol	3500	U
132-64-9	Dibenzofuran	720	U
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
7005-72-3	4-Chlorophenyl-phenylether	720	U
86-73-7	Fluorene	720	U
100-10-6	4-Nitroaniline	3500	U
534-52-1	4,6-Dinitro-2-Methylphenol	3500	U
86-30-6	N-Nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
87-86-5	Pentachlorophenol	3500	U
85-01-8	Phenanthrene	720	U
120-12-7	Anthracene	720	U
84-74-2	Di-n-Butylphthalate	720	U
206-44-0	Fluoranthene	720	U
129-00-0	Pyrene	720	U
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	1400	U
56-55-3	Benzo(a)Anthracene	720	U
218-01-9	Chrysene	720	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~720~~ 76	~~U~~ J
117-84-0	Di-n-Octyl Phthalate	720	U
205-99-2	Benzo(b)Fluoranthene	720	U
207-08-9	Benzo(k)Fluoranthene	720	U
50-32-8	Benzo(a)Pyrene	720	U
193-39-5	Indeno(1,2,3-cd)Pyrene	720	U
53-70-3	Dibenz(a,h)Anthracene	720	U
191-24-2	Benzo(g,h,i)Perylene	720	U

(1) - Cannot be separated from Diphenylamine

14751 • 5-311-08

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ELY61

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841141

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0427

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 8 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.42	49000	~~AB~~J U 9/10/90
2.	C9H20 Hydrocarbon	4.48	400	~~BJ~~ U 9/10/90
3.	C9H20 Hydrocarbon	4.57	510	~~BJ~~ U 9/10/90
4.	C9H20 Hydrocarbon	4.67	350	~~BJ~~ U 9/10/90
5.	Unknown Ester or Ketone	5.42	510	~~BJ~~ U 9/10/90
6.	C9H20 Hydrocarbon	5.67	4200	J
7. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.97	2700	~~BJ~~ U 9/10/90
8.	Unknown	6.60	350	J
9.	C9H20 Hydrocarbon	6.72	3700	~~B~~J 9/10/90
10.	C9H20 Hydrocarbon	7.70	6800	J
11.	C9H20 Hydrocarbon	7.73	410	J
12.	C15H32 Hydrocarbon	14.27	310	J
13.	C16H34 Hydrocarbon	15.54	300	J
14.	Unknown Hydrocarbon	16.74	320	J
15.	Unknown Hydrocarbon	16.80	530	J
16.	Unknown Hydrocarbon	17.99	310	J
17.	Unknown Hydrocarbon	21.92	400	J
18.	Unknown Hydrocarbon	22.84	330	J
19.	Unknown Hydrocarbon	24.54	300	J
20.	Unknown Hydrocarbon	27.64	440	J

14751 • 5 -210-17

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY62

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841142

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0428

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)Ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
100-51-6	Benzyl Alcohol	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
39638-32-9	bis(2-Chloroisopropyl)Ether	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-Di-n-Propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
65-85-0	Benzoic Acid	3700	U
111-91-1	bis(2-Chloroethoxy)Methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-Methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethyl Phthalate	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U

14751 · 5 -210-18

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY62

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841142

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0428

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	770	U
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	770	U
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenylether	770	U
86-73-7	Fluorene	770	U
100-10-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-Methylphenol	3700	U
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
84-74-2	Di-n-Butylphthalate	770	U
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	770	U
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)Anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~770~~ 95	~~U~~ OK 9/10/22/90
117-84-0	Di-n-Octyl Phthalate	770	U
205-99-2	Benzo(b)Fluoranthene	~~770~~ 93	~~U~~ OK 9/10/22/90
207-08-9	Benzo(k)Fluoranthene	770	U
50-32-8	Benzo(a)Pyrene	770	U
193-39-5	Indeno(1,2,3-cd)Pyrene	770	U
53-70-3	Dibenz(a,h)Anthracene	770	U
191-24-2	Benzo(g,h,i)Perylene	770	U

(1) - Cannot be separated from Diphenylamine

14751 · 5-311-09

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY62

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841142

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0428

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.0

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123422	4-Hydroxy-4-methyl-2-pentano	4.43	53000	ABJ
2.	C9H20 Hydrocarbon	4.48	660	BJ
3.	C9H20 Hydrocarbon	4.57	890	BJ
4.	C9H20 Hydrocarbon	4.70	620	BJ
5.	Unknown Ester or Ketone	5.45	1200	BJ
6.	C9H20 Hydrocarbon	5.68	11000	J
7. 4436753	3-Hexene-2,5-dione (8CI9CI)	5.98	4000	BJ
8.	Unknown	6.63	520	J
9.	C9H20 Hydrocarbon	6.73	7500	BJ
10.	Unknown Hydrocarbon	7.08	520	J
11.	C9H20 Hydrocarbon	7.73	9000	J
12.	C12H26 Hydrocarbon	10.04	610	J
13.	C13H28 Hydrocarbon	11.54	570	J
14.	C14H30 Hydrocarbon	12.97	520	J
15.	C14H30 Hydrocarbon	14.30	520	J
16.	C16H34 Hydrocarbon	15.57	540	J
17.	C17H36 Hydrocarbon	16.75	690	J
18.	Unknown Hydrocarbon	16.84	1000	J
19.	Unknown Hydrocarbon	18.00	500	J
20.	Unknown Hydrocarbon	21.95	590	J
21.	Unknown Hydrocarbon	22.87	600	J
22.	Unknown Hydrocarbon	24.59	510	J
23.	Unknown Hydrocarbon	27.67	1400	J

14751.5-310-19

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY63

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841143

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0429

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 17 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)Ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
100-51-6	Benzyl Alcohol	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
39638-32-9	bis(2-Chloroisopropyl)Ether	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-Di-n-Propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
65-85-0	Benzoic Acid	3900	U
111-91-1	bis(2-Chloroethoxy)Methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-Methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	3900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	3900	U
131-11-3	Dimethyl Phthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U

14751 · 5-210-80

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY63

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841143

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0429

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 17 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	3900	U
100-02-7	4-Nitrophenol	3900	U
132-64-9	Dibenzofuran	800	U
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenylether	800	U
86-73-7	Fluorene	800	U
100-10-6	4-Nitroaniline	3900	U
534-52-1	4,6-Dinitro-2-Methylphenol	3900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	~~160~~	~~J~~ OK 10/22/90
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
84-74-2	Di-n-Butylphthalate	800	U
206-44-0	Fluoranthene	~~95~~	~~J~~ OK 10/22/90
129-00-0	Pyrene	800	U
85-68-7	Butylbenzylphthalate	~~570~~	~~J~~ OK 10/22/90
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)Anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~340~~	~~J~~ OK 10/22/90
117-84-0	Di-n-Octyl Phthalate	800	U
205-99-2	Benzo(b)Fluoranthene	800	U
207-08-9	Benzo(k)Fluoranthene	800	U
50-32-8	Benzo(a)Pyrene	800	U
193-39-5	Indeno(1,2,3-cd)Pyrene	800	U
53-70-3	Dibenz(a,h)Anthracene	800	U
191-24-2	Benzo(g,h,i)Perylene	800	U

(1) - Cannot be separated from Diphenylamine

14751.5-211-10

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY63

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841143

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F0429

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 17 dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/31/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

Number TICs found: 23

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123422	4-Hydroxy-4-methyl-2-pentano	4.42	53000	ABJ
2.		C9H20 Hydrocarbon	4.48	620	BJ
3.		C9H20 Hydrocarbon	4.57	830	BJ
4.		C9H20 Hydrocarbon	4.67	640	BJ
5.		Unknown Ester or Ketone	5.42	1200	BJ
6.		C9H20 Hydrocarbon	5.68	12000	J
7.	4436753	3-Hexene-2,5-dione (8CI9CI)	5.98	4100	BJ
8.		Unknown	6.62	690	J
9.		C9H20 Hydrocarbon	6.72	6500	BJ
10.		C9H20 Hydrocarbon	7.07	880	J
11.		Unknown	7.55	720	J
12.		C9H20 Hydrocarbon	7.70	8400	J
13.		C9H20 Hydrocarbon	10.82	470	J
14.		Unknown Hydrocarbon	26.16	650	J
15.		Unknown Hydrocarbon	26.89	530	J
16.	638664	Octadecanal (9CI)	27.22	1400	J
17.		Unknown Hydrocarbon	27.64	4600	J
18.	56554928	10-Octadecenal (9CI)	28.94	790	J
19.		Unknown Hydrocarbon	29.47	1800	J
20.	56554871	16-Octadecenal (9CI)	31.27	1400	J
21.		Unknown Hydrocarbon	31.97	500	J
22.		Unknown	33.07	890	J
23.		Unknown	36.19	1900	J

14751 · 5-26-91

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY64

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841145

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0391

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5-30-22

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY64

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841145

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0391

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 - 5-211-11

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY64

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841145

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0391

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 • 5-210-23

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY65

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841149

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0394

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5 -2-10-24

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY65

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841149

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0394

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 · 5 -311-12

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY65

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841149

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0394

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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14751 · 5 -210-25

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY66

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841151

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0395

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5-210-26

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY66

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841151

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0395

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 · 5 -311-13

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY66

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841151

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0395

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-210-27

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY67

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841153

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0396

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5-210-28

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY67

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841153

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0396

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 · 5-211-14

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY67

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841153

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0396

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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14751 · 5 -210-89

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY68

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841155

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0397

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5-310-30

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY68

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841155

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0397

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 · 5-211-15

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY68

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841155

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0397

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/27/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-210-31

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY69

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841157

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0398

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751 · 5-210-32

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY69

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841157

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0398

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10~~ 8	~~U~~ J 9/19/22/90
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

14751 · 5-211-16

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY69

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841157

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0398

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. _____ dec. _____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5-210-33

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY70

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841159

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0402

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

14751.5-210-34

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY70

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841159

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0402

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751.5-311-17

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY70

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841159

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0402

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

14751 · 5 -210-35

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY71

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841161

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0403

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

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

CAS NO.	COMPOUND		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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

652

14751 · 5-210-36

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY71

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841161

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0403

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	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	20	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

14751 • 5 -211-18

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ELY71

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841161

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A0403

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I SV-TIC 1/87 Rev.

14751 · 5 -310-01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY54

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841134

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	Lindane	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	37	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

864 09-21-90

RH 09/13/90

14751 · 5 -310-02

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY55

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841135

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 19 dec. 13 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/28/90

GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	Lindane	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	37	U
5103-71-9	alpha-Chlordane	180	U
5103-74-2	gamma-Chlordane	180	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

RH 09/13/90

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14751 · 5-310-03

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY56

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841136

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 13 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.9 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	Lindane	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	37	U
5103-71-9	alpha-Chlordane	180	U
5103-74-2	gamma-Chlordane	180	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

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14751 · 5-310-04

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY57

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841137

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 9 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.8 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	18	U
319-85-7	beta-BHC	18	U
319-86-8	delta-BHC	18	U
58-89-9	Lindane	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor epoxide	18	U
959-98-8	Endosulfan I	18	U
60-57-1	Dieldrin	35	U
72-55-9	4,4'-DDE	35	U
72-20-8	Endrin	35	U
33213-65-9	Endosulfan II	35	U
72-54-8	4,4'-DDD	35	U
1031-07-8	Endosulfan sulfate	35	U
50-29-3	4,4'-DDT	35	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin ketone	35	U
5103-71-9	alpha-Chlordane	180	U
5103-74-2	gamma-Chlordane	180	U
8001-35-2	Toxaphene	350	U
12674-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	350	U
11096-82-5	Aroclor-1260	350	U

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14751 · 5-310-05

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY58

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841138

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 76 dec. 54 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	35	U
319-85-7	beta-BHC	35	U
319-86-8	delta-BHC	35	U
58-89-9	Lindane	35	U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	35	U
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	70	U
72-55-9	4,4'-DDE	70	U
72-20-8	Endrin	70	U
33213-65-9	Endosulfan II	70	U
72-54-8	4,4'-DDD	70	U
1031-07-8	Endosulfan sulfate	70	U
50-29-3	4,4'-DDT	70	U
72-43-5	Methoxychlor	350	U
53494-70-5	Endrin ketone	70	U
5103-71-9	alpha-Chlordane	350	U
5103-74-2	gamma-Chlordane	350	U
8001-35-2	Toxaphene	700	U
12674-11-2	Aroclor-1016	350	U
11104-28-2	Aroclor-1221	350	U
11141-16-5	Aroclor-1232	350	U
53469-21-9	Aroclor-1242	350	U
12672-29-6	Aroclor-1248	350	U
11097-69-1	Aroclor-1254	700	U
11096-82-5	Aroclor-1260	700	U

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1/87 Rev.

14751 · 5 -310-06

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY59

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841139

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 15 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	Lindane	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	38	U
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	38	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	380	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	380	U

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FORM I PEST 1/87 Rev.

14751 · 5 -310-07

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY60

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841140

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 32 dec. 14 Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	Lindane	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	37	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

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FORM I PEST 1/87 Rev.

14751 · 5 -310-08

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY61

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841141

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 8 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	17	U
319-85-7	beta-BHC	17	U
319-86-8	delta-BHC	17	U
58-89-9	Lindane	17	U
76-44-8	Heptachlor	17	U
309-00-2	Aldrin	17	U
1024-57-3	Heptachlor epoxide	17	U
959-98-8	Endosulfan I	17	U
60-57-1	Dieldrin	35	U
72-55-9	4,4'-DDE	35	U
72-20-8	Endrin	35	U
33213-65-9	Endosulfan II	35	U
72-54-8	4,4'-DDD	35	U
1031-07-8	Endosulfan sulfate	35	U
50-29-3	4,4'-DDT	35	U
72-43-5	Methoxychlor	170	U
53494-70-5	Endrin ketone	35	U
5103-71-9	alpha-Chlordane	170	U
5103-74-2	gamma-Chlordane	170	U
8001-35-2	Toxaphene	350	U
12674-11-2	Aroclor-1016	170	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	170	U
53469-21-9	Aroclor-1242	170	U
12672-29-6	Aroclor-1248	170	U
11097-69-1	Aroclor-1254	350	U
11096-82-5	Aroclor-1260	350	U

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14751 · 5 -310-09

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY62

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841142

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 14 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.7 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	Lindane	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	37	U
72-55-9	4,4'-DDE	37	U
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	37	U
50-29-3	4,4'-DDT	37	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	37	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	370	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

FORM I PEST

1/87 Rev.

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14751 · 5-310-10

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY63

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) SOIL Lab Sample ID: 841143

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. 17 dec. __ Date Extracted: 08/24/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/29/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	Lindane	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	19	U
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	39	U
72-55-9	4,4'-DDE	39	U
72-20-8	Endrin	39	U
33213-65-9	Endosulfan II	39	U
72-54-8	4,4'-DDD	39	U
1031-07-8	Endosulfan sulfate	39	U
50-29-3	4,4'-DDT	39	U
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	39	U
5103-71-9	alpha-Chlordane	190	U
5103-74-2	gamma-Chlordane	190	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor-1016	190	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	190	U
53469-21-9	Aroclor-1242	190	U
12672-29-6	Aroclor-1248	190	U
11097-69-1	Aroclor-1254	390	U
11096-82-5	Aroclor-1260	390	U

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FORM I PEST 1/87 Rev.

14751 · 5 -310-11

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY64

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841146

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/24/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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FORM I PEST 1/87 Rev.

14751.5-310-12

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY65

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841150

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST 1/87 Rev.

RH 09/14/90

14751.5-310-13

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY66

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841152

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 7.1 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

RH 09/14/90

14751 · 5-310-14

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY67

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841154

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

RH 09/14/90

FORM I PEST 1/87 Rev.

14751 • 5 -310-15

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY68

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841156

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 6.8 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

RH 09/14/90

14751 • 5 -310-16

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY69

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841158

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

R 09/14/90

FORM I PEST 1/87 Rev.

14751 • 5 -360-17

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY70

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841160

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

1/87 Rev.

RJd 09/14/90

14751 · 5 -310-18

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ELY71

Lab Name: CLAYTON NOVI Contract: 68-D9-0035

Lab Code: CLAYTN Case No.: 14751 SAS No.: _____ SDG No.: ELY54

Matrix: (soil/water) WATER Lab Sample ID: 841162

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

Level: (low/med) LOW Date Received: 08/22/90

% Moisture: not dec. __ dec. __ Date Extracted: 08/23/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/25/90

GPC Cleanup: (Y/N) N pH: 7.4 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

RH 09/14/90