1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ORIGINAL (Red)
CN396

Lab Name: COMPUCHEM LABORATORIES Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211894

Sample wt/vol: 30.3 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 47 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/88

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	17.	
319-85-7	beta-BHC	15.	U
319-86-8	delta-BHC	15.	U
58-89-9	gamma-BHC (Lindane)	15.	U
76-44-8	Heptachlor	15.	U
309-00-2	Aldrin	15.	U
1024-57-3	Heptachlor epoxide	15.	U
959-98-8	Endosulfan I	15.	U
60-57-1	Dieldrin	30.	U
72-55-9	4,4'-DDE	30.	U
72-20-8	Endrin	30.	U
33213-65-9	Endosulfan II	30.	U
72-54-8	4,4'-DDD	30.	U
1031-07-8	Endosulfan sulfate	30.	U
50-29-3	4,4'-DDT	72.	
72-43-5	Methoxychlor	150	U
53494-70-5	Endrin ketone	30.	U
5103-71-9	alpha-Chlordane	150	U
5103-74-2	gamma-Chlordane	150	U
8001-35-2	Toxaphene	300	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	150	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	150	U
12672-29-6	Aroclor-1248	150	U
11097-69-1	Aroclor-1254	300	U
11096-82-5	Aroclor-1260	300	U

FORM I PEST 1/87 Rev.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. ORIGINAL (Red)

CN396

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211894

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH011894C11

Level: (low/med) LOW Date Received: 08/12/88

% Moisture. not dec. 47 Date Analyzed: 08/19/88

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

ORIGINAL (Red)

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CN398

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211905

Sample wt/vol: 30.4 (g/mL) G Lab File ID: GH011905A08

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 34 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/18/88

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

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~5.88~~	~~1200~~	~~BJ~~
2.	ALKANE	5.98	1900	J
3.	ISOMER	6.70	900	J
4.	ALDOL	6.88	1300	AJ
5.	ALDOL	7.35	1100	AJ
6.	ALDOL	7.62	350	AJ
7.	HYDROCARBON	13.44	300	J
8.	HYDROCARBON	17.60	600	J
9.	HYDROCARBON	17.70	550	J
10.	UNKNOWN	17.95	850	J
11.	UNKNOWN	18.17	1300	J
12.	UNKNOWN	18.64	500	J
13.	UNKNOWN	18.90	700	J
14.	UNKNOWN	19.20	850	J
15.	HYDROCARBON	19.35	1200	J
16.	UNKNOWN	19.44	750	J
17.	UNKNOWN	19.97	700	J
18.	UNKNOWN	20.05	800	J
19.	UNKNOWN	20.29	1100	J
20.	UNKNOWN	21.15	600	J
21.	UNKNOWN	22.55	550	J
22.	UNKNOWN	22.87	1000	J
23.	UNKNOWN	24.54	1200	J
24.	UNKNOWN	25.86	1100	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CN396

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211894

Sample wt/vol: 30.3 (g/mL) G Lab File ID: G2J11894B08

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 47 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/88

GPC Cleanup: (Y/N) N pH: 6.6 Dilution Factor: 1.00

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
~~1.~~	~~BLANK CONTAMINANT~~	~~6.23~~	~~1100~~	~~BJ~~
~~2.~~	~~BLANK CONTAMINANT~~	~~7.15~~	~~5700~~	~~BAJ~~
3.	ALDOL	7.25	560	AJ
4.	HYDROCARBON	7.85	620	J
5.	UNKNOWN	8.30	1900	J
6.	UNKNOWN	8.99	1500	J
7.	UNKNOWN	9.65	620	J
8.	HYDROCARBON	13.74	3100	J
9.	HYDROCARBON	13.79	1100	J
10.	HYDROCARBON	14.04	750	J
11.	UNKNOWN	14.24	1100	J
12.	HYDROCARBON	14.40	2800	J
13.	HYDROCARBON	14.49	2200	J
14.	HYDROCARBON	15.02	2200	J
15.	HYDROCARBON	15.64	680	J
16.	HYDROCARBON	16.20	750	J
17.	SUBSTITUTED HYDROCARBON	16.80	930	J
18.	HYDROCARBON	17.89	750	J
19.	UNKNOWN	17.95	870	J
20.	HYDROCARBON	18.57	1400	J
21.	HYDROCARBON	19.32	1100	J
22.	HYDROCARBON	20.22	2200	J
23.	HYDROCARBON	22.55	3200	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CN397

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211898

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH011898B11

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 29 Date Analyzed: 08/18/88

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	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	110	B
67-64-1	Acetone	170	B
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	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	14	U
591-78-6	2-Hexanone	14	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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CN397

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211898

Sample wt/vol: 30.2 (g/mL) G Lab File ID: GH011898B08

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 29 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	460	U
100-51-6	Benzyl Alcohol	460	U
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
39638-32-9	bis(2-Chloroisopropyl)Ether	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-Di-n-Propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
65-85-0	Benzoic Acid	90	J
111-91-1	bis(2-Chloroethoxy)Methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	460	U
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethyl Phthalate	460	U
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. ORIGINAL (Red)

CN397

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211898

Sample wt/vol: 30.2 (g/mL) G Lab File ID: GH011898B08

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 29 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	460	U
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	460	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-Methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	460	U
120-12-7	Anthracene	460	U
84-74-2	Di-n-Butylphthalate	460	U
206-44-0	Fluoranthene	61	J
129-00-0	Pyrene	59	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	920	U
56-55-3	Benzo(a)Anthracene	460	U
218-01-9	Chrysene	460	U
117-81-7	bis(2-Ethylhexyl)Phthalate	180	J
117-84-0	Di-n-Octyl Phthalate	51	J
205-99-2	Benzo(b)Fluoranthene	81	JX
207-08-9	Benzo(k)Fluoranthene	81	JX
50-32-8	Benzo(a)Pyrene	460	U
193-39-5	Indeno(1,2,3-cd)Pyrene	460	U
53-70-3	Dibenz(a,h)Anthracene	460	U
191-24-2	Benzo(g,h,i)Perylene	460	U

(1) - Cannot be separated from Diphenylamine

X = indistinguishable isomers

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CN397 ORIGINAL (Red)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211898

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 29 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	11.	U
319-85-7	beta-BHC	11.	U
319-86-8	delta-BHC	11.	U
58-89-9	gamma-BHC (Lindane)	11.	U
76-44-8	Heptachlor	11.	U
309-00-2	Aldrin	11.	U
1024-57-3	Heptachlor epoxide	11.	U
959-98-8	Endosulfan I	11.	U
60-57-1	Dieldrin	22.	U
72-55-9	4,4'-DDE	22.	U
72-20-8	Endrin	22.	U
33213-65-9	Endosulfan II	22.	U
72-54-8	4,4'-DDD	22.	U
1031-07-8	Endosulfan sulfate	22.	U
50-29-3	4,4'-DDT	22.	U
72-43-5	Methoxychlor	110	U
53494-70-5	Endrin ketone	22.	U
5103-71-9	alpha-Chlordane	110	U
5103-74-2	gamma-Chlordane	110	U
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	220	U
11096-82-5	Aroclor-1260	220	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
ORIGINAL (Red)
CN397

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211898

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH011898B11

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 29 Date Analyzed: 08/18/88

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.	METHANE,TRICHLORFLUORO-	9.20	7.0	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CN397

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211898

Sample wt/vol: 30.2 (g/mL) G Lab File ID: GH011898B08

Level: (low/med) LOW Date Received: 08/12/88

% Moisture: not dec. 29 dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/23/88

GPC Cleanup: (Y/N) N pH: 7.3 Dilution Factor: 1.00

Number TICs found: 18

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	~~BLANK CONTAMINANT~~	~~5.70~~	~~330~~	~~BJ~~
2.	~~BLANK CONTAMINANT~~	~~5.75~~	~~1900~~	~~BJ~~
3.	~~BLANK CONTAMINANT~~	~~5.85~~	~~3000~~	~~BJ~~
4.	~~BLANK CONTAMINANT~~	~~6.00~~	~~280~~	~~BJ~~
5.	ALDOL	6.55	750	AJ
6.	ALDOL	6.75	3100	AJ
7.	ALDOL	7.20	1100	AJ
8.	ALDOL	7.47	930	AJ
9.	UNKNOWN	17.37	1200	J
10.	UNKNOWN	17.80	230	J
11.	UNKNOWN	19.19	560	J
12.	UNKNOWN	20.55	470	J
13.	UNKNOWN	20.62	93	J
14.	UNKNOWN	20.72	750	J
15.	UNKNOWN	20.82	370	J
16.	UNKNOWN	20.85	93	J
17.	UNKNOWN	21.12	840	J
18.	UNKNOWN	23.94	560	J

ORIGINAL
(Red)

Appendix E

DPO Report for Contractual Compliance

ORGANIC DATA VALIDATION SUMMARY

ORIGINAL (Red)

Date Review Completed: 10/10/88
Case No.: 10138
Site Name: Highway Materials
Sample Nos.:CN396-CN401
CN787-CN789 CN514-CN517
CP661-CP662 CN569-CN572

Contract Lab: Compuchem Labs
Contract No.: 68-01-7397
Lab DPO: Tom Bennett,Jr.
Reviewer: Julie Dixon
from Region III/ESAT
Phone: (301) 266-9887

MATRIX	CONCENTRATION low	med	high	MATRIX RELATED COMMENTS
soil/solid	8			
aqueous	11			
other				

VOLATILES	OK	FYI	Action	COMMENT
GC/MS tuning--BFB	X			
Initial Calibration	X			
Continuing Calibration		X		see notes 1 & 2
Surrogate Recovery	X			
Matrix Spikes	X			
Reagent Blanks		X		see note 3
Holding Times	X			

SEMI-VOLATILES	OK	FYI	Action	COMMENT
GC/MS tuning--DFTPP	X			
Initial Calibration	X			
Continuing Calibration		X		see note 2
Surrogate Recovery		X		see note 4
Matrix Spikes		X		see note 5
Reagent Blanks	X			
Holding Times	X			

PESTICIDES	OK	FYI	Action	COMMENT
Instrument Performance	X			
Initial Calibration	X			
Continuing Calibration	X			
Surrogate Recovery	X			
Matrix Spikes		X		see note 6
Reagent Blanks	X			
Holding Times	X			

OVERALL CASE	OK	FYI	Action	
Compound Identification	X			
Data Completeness	X			

REVIEWER'S COMMENTS:
See note 7
See note 8

DOCUMENTATION ATTACHED (see following pages)

Organic Data Validation Summary

Note 1 - The RF values for 2-butanone were less than 0.05 in all continuing calibrations. (See Form VIIs in Appendix F).

Note 2 - Several target compounds exceeded the precision criteria in the continuing calibrations. These compounds and the associated samples are listed in Table I of Appendix F.

Note 3 - The maximum concentrations of compounds found in a method blank are listed below.

Compound	Concentration
methylene chloride *	8 ug/kg
acetone *	26 ug/kg
2-hexanone	3J ug/kg

* = common laboratory contaminant

Note 4 - Samples CP661 and CN397 had at least one acid or base neutral surrogate that exceeded criteria. No qualifying action was necessary.

Note 5 - One (1) MS/MSD pair was analyzed for soils and one (1) for waters. A total of one (1) out of twenty-two (22) RPD values and one (1) out of forty-four (44) percent recovery values exceeded the advisory criteria for semivolatiles. (See Form IIIs in Appendix F).

Note 6 - A total of one (1) out of twelve (12) RPD values for the pesticide MS/MSD analyses exceeded the advisory criteria.

Note 7 - Traffic reports were not included with this data package.

Note 8 - Both the original analysis and the reextraction for sample CN787 had two internal standard areas that exceeded criteria. (See Forms VIII in Appendix F).

WESTON

Appendix F

Support Documentation

Table I

Compounds and Associated Samples Affected by Calibration Uncertainty

Volatiles	CN396	CN397	CN398	CN399	CN400	CN401	CN514	CN515	CN516	CN517	CN569	CN570	CN571	CN572	CN787	CN788	CN789	CP661	CP662
chloromethane											C			C				C	C
bromomethane											C			C				C	C
chloroethane											C			C				C	C
1,1-dichloroethane			C																
total-1,2-dichloroethene			C																
2-butanone	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1,1,1-trichloroethane	C	C		C	C	C									C	C			
carbon tetrachloride	C	C		C	C	C									C	C			
bromodichloromethane	C	C		C	C	C									C	C			
dibromochloromethane	C	C		C	C	C									C	C			
trans-1,3-dichloropropene	C	C		C	C	C					C		C	C	C	C	C	C	C
bromoform	C	C		C	C	C									C	C			
styrene											C			C				C	C
Semivolatiles																			
bis(2-chloroethyl)ether						C									C				
benzyl alcohol		C		C	C											C			
2-methylphenol			C																
bis(2-chloroisopropyl)ether	C	C	C	C	C	C		C							C	C			
n-nitroso-di-n-propylamine	C		C			C									C				
nitrobenzene	C		C			C									C				
isophorone											C								
benzoic acid	C					C	C		C	C	C	C	C	C	C				
1,2,4-trichlorobenzene			C																
4-chloroaniline	C	C		C	C	C									C	C		C	C
hexachlorocyclopentadiene	C	C	C	C	C			C								C			
2-nitroaniline	C		C			C		C							C				
3-nitroaniline		C		C	C											C			
2,4-dinitrophenol	C	C	C	C	C											C			
4-nitrophenol	C		C			C		C							C				

Table I (continued)

Compounds and Associated Samples Affected by Calibration Uncertainty

Semivolatiles	CN396	CN397	CN398	CN399	CN400	CN401	CN514	CN515	CN516	CN517	CN569	CN570	CN571	CN572	CN787	CN788	CN789	CP661	CP662
2,4-dinitrotoluene		C		C	C	C									C	C			
4-nitroaniline		C		C	C	C									C	C			
4,6-dinitro-2-methylphenol			C										C	C				C	C
di-n-butylphthalate		C		C	C	C									C	C			
pyrene			C			C									C				
butylbenzylphthalate		C	C	C	C	C		C							C	C			
3,3-dichlorobenzidine		C	C	C	C	C	C	C	C	C		C	C	C	C	C		C	C
benzo(a)anthracene		C	C	C	C	C									C	C			
chrysene							C		C	C		C	C	C					
bis(2-ethylhexyl)phthalate	C	C	C	C	C	C									C	C			
benzo(b)fluoranthene						C									C				
dibenz(a,h)anthracene						C									C				
benzo (g,h,i) perylene			C																

C = % D exceeded 25% in the continuing calibration. Quantitation limits are qualified "UJ".

R = Response factor (RF) was less than 0.05 in the associated standard. Quantitation limits are qualified "R".

ORIGINAL PAGE

ORIGINAL
(Red)

WESTON

Case 10138

TABLE II

PRECISION ESTIMATES OF FIELD DUPLICATES

Volatiles	**CN399**	**CN787***	**RPD**
chloroform	3J	ND	IN
Semivolatiles			
benzoic acid	120J	ND	IN
fluoranthene	ND	60J	IN
pyrene	ND	70J	IN

* = CN787 had two semivolatile internal standards that exceeded the acceptable limit for area counts.
IN = Indeterminate
ND = None Detected

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix Spike - EPA Sample No.: CN569

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	200	0	102	51	12- 86
2-Chlorophenol	200	0	181	91	27-123
1,4-Dichlorobenzene	100	0	63.2	63	36 97
N-Nitroso-di-n-prop.(1)	100	0	64.2	64	41 116
1,2,4-Trichlorobenzene	100	0	69.0	69	39 98
4-Chloro-3-methylphenol	200	0	171	86	23 97
Acenaphthene	100	0	75.8	76	46-118
4-Nitrophenol	200	0	102	51	10- 80
2,4-Dinitrotoluene	100	0	78.2	78	24- 96
Pentachlorophenol	200	0	274	137 *	9-103
Pyrene	100	0	80.0	80	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	200	102	51	0	42	12- 86
2-Chlorophenol	200	176	88	3	40	27-123
1,4-Dichlorobenzene	100	76.2	76	-19	28	36 97
N-Nitroso-di-n-prop.(1)	100	76.0	76	-17	38	41 116
1,2,4-Trichlorobenzene	100	82.8	83	-18	28	39 98
4-Chloro-3-methylphenol	200	156	78	10	42	23 97
Acenaphthene	100	85.2	85	-11	31	46-118
4-Nitrophenol	200	87.0	44	15	50	10- 80
2,4-Dinitrotoluene	100	87.0	87	-11	38	24- 96
Pentachlorophenol	200	200	100	31	50	9-103
Pyrene	100	96.2	96	-18	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: 1 out of 22 outside limits

COMMENTS: CLP ,1013,8-CN39,-CN56,LOW,WATER,211924,BNA, ,
TUNE: 0020 081688 0038

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix Spike - EPA Sample No.: CN398 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	10000	0	6220	62	26- 90
2-Chlorophenol	10000	0	6670	67	25-102
1,4-Dichlorobenzene	5020	0	2810	56	28 104
N-Nitroso-di-n-prop.(1)	5020	0	3340	67	41 126
1,2,4-Trichlorobenzene	5020	0	3860	77	38 107
4-Chloro-3-methylphenol	10000	0	7120	71	26 103
Acenaphthene	5020	0	3890	77	31-137
4-Nitrophenol	10000	0	6220	62	11-114
2,4-Dinitrotoluene	5020	0	3890	77	28- 89
Pentachlorophenol	10000	0	8070	81	17-109
Pyrene	5020	0	3620	72	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	10000	7550	76	-20	35	26- 90
2-Chlorophenol	10000	8300	83	-21	50	25-102
1,4-Dichlorobenzene	5000	3680	74	-28 *	27	28 104
N-Nitroso-di-n-prop.(1)	5000	4220	84	-23	38	41 126
1,2,4-Trichlorobenzene	5000	4720	94	-20	23	38 107
4-Chloro-3-methylphenol	10000	8250	83	-16	33	26 103
Acenaphthene	5000	4120	82	-6	19	31-137
4-Nitrophenol	10000	7250	73	-16	50	11-114
2,4-Dinitrotoluene	5000	3880	78	-1	47	28- 89
Pentachlorophenol	10000	6350	64	23	47	17-109
Pyrene	5000	3910	78	-8	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: 1 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: CLP ,1013,8-CN39,-CN39, ,SOIL,211905,BNA, ,
TUNE: 0008 081888 0633

ORIGINAL (Red)

3E
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM LABORATORIES Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix Spike - EPA Sample No.: CN569

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.400	0.000	0.350	88	56-123
Heptachlor	0.400	0.000	0.400	100	40-131
Aldrin	0.400	0.000	0.320	80	40-120
Dieldrin	1.000	0.000	0.820	82	52-126
Endrin	1.000	0.000	0.840	84	56-121
4,4'-DDT	1.000	0.000	0.930	93	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.400	0.250	63	33 *	15	56-123
Heptachlor	0.400	0.450	113	12	20	40-131
Aldrin	0.400	0.370	93	15	22	40-120
Dieldrin	1.000	0.880	88	7	18	52-126
Endrin	1.000	0.920	92	9	21	56-121
4,4'-DDT	1.000	1.050	105	12	27	38-127

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

* Values outside of QC limits

RPD: 1 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

ORIGINAL (Red)

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Lab File ID (Standard): HG880823A08 Date Analyzed: 08/23/88

Instrument ID: 08 Time Analyzed: 1104

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	315000	14.07	154000	18.20	94400	22.20
	UPPER LIMIT	630000		308000		188800	
	LOWER LIMIT	157500		77000		47200	
	EPA SAMPLE NO.						
01	CN397	359000	14.14	192000	18.30	166000	22.37
02	CN399	274000	14.09	186000	18.20	155000	22.20
03	CN400	294000	14.09	228000	18.20	185000	22.20
04	CN787RE	398000	14.10	317000 *	18.25	287000 *	22.30
05	CN788	404000	14.10	177000	18.25	142000	22.25

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

ORIGINAL (Red)

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Lab File ID (Standard): HH880822B08 Date Analyzed: 08/22/88

Instrument ID: 08 Time Analyzed: 2247

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	167000	14.09	98700	18.19	60600	22.12
	UPPER LIMIT	334000		197400		121200	
	LOWER LIMIT	83500		49350		30300	
	EPA SAMPLE NO.						
01	CN401	212000	14.10	141000	18.24	116000	22.22
02	CN787	317000	14.10	283000 *	18.27	219000 *	22.32

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	CN514	87	93	102	53	69	96		0
02	CN515	63	75	72	37	47	70		0
03	CN516	86	90	94	50	66	114		0
04	CN517	87	87	112	54	72	100		0
05	CN569	69	73	84	35	39	61		0
06	CN570	76	79	95	47	66	106		0
07	CN571	90	96	115	53	70	107		0
08	CN572	96	105	120	56	87	121		0
09	CP661	99	90	92	67	92	124 *		1
10	CP662	93	88	85	57	80	106		0
11	CN569MS	67	73	77	54	66	104		0
12	CN569MSD	80	84	91	51	67	93		0
13	SBLK87	61	64	65	43	47	65		0
14	SBLK88	112	110	105	64	90	122		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

SAMPLE DATA PACKAGE 1670

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	CN396	72	92	81	84	80	81		0
02	CN397	124 *	107	122	119 *	112	120		2
03	CN398	77	81	69	69	75	59		0
04	CN399	107	86	81	103	107	67		0
05	CN400	97	87	85	108	101	89		0
06	CN401	87	76	84	81	81	88		0
07	CN787	96	73	80	84	80	105		0
08	CN787RE	108	91	91	108	105	101		0
09	CN788	102	78	97	99	96	83		0
10	CN398MS	70	80	71	64	56	71		0
11	CN398MSD	73	81	68	79	74	79		0
12	SBLK84	87	99	108	85	85	91		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

FORM II SV-2

11 of 33

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 18 Calibration date: 08/17/88 Time: 1939

Lab File ID: CT880817B18 Init. Calib. Date(s): 08/16/88 08/17/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.666	0.376	43.5	#
Bromomethane		0.743	1.009	-35.8	
Vinyl Chloride	*	0.909	0.816	10.2	*
Chloroethane		0.546	0.382	30.0	
Methylene Chloride		0.601	0.521	13.3	
Acetone		0.141	0.121	14.2	
Carbon Disulfide		1.361	1.314	3.5	
1,1-Dichloroethene	*	0.767	0.641	16.4	*
1,1-Dichloroethane	#	0.834	0.690	17.3	#
1,2-Dichloroethene (total)		0.774	0.684	11.6	
Chloroform	*	1.544	1.269	17.8	*
1,2-Dichloroethane		0.840	0.636	24.3	
2-Butanone		0.015	0.015	0.0	
1,1,1-Trichloroethane		0.436	0.343	21.3	
Carbon Tetrachloride		0.517	0.415	19.7	
Vinyl Acetate		0.284	0.284	0.0	
Bromodichloromethane		0.447	0.358	19.9	
1,2-Dichloropropane	*	0.183	0.160	12.6	*
cis-1,3-Dichloropropene		0.289	0.235	18.7	
Trichloroethene		0.514	0.503	2.1	
Dibromochloromethane		0.797	0.729	8.5	
1,1,2-Trichloroethane		0.378	0.339	10.3	
Benzene		0.473	0.425	10.2	
Trans-1,3-Dichloropropene		0.289	0.200	30.8	
Bromoform	#	0.538	0.529	1.7	#
4-Methyl-2-Pentanone		0.190	0.192	-1.1	
2-Hexanone		0.144	0.143	0.7	
Tetrachloroethene		0.471	0.493	-4.7	
1,1,2,2-Tetrachloroethane	#	0.518	0.429	17.2	#
Toluene	*	0.446	0.403	9.6	*
Chlorobenzene	#	0.852	0.800	6.1	#
Ethylbenzene	*	0.349	0.315	9.7	*
Styrene		0.873	0.421	51.8	
Total Xylenes		1.062	1.099	-3.5	
Toluene-d8		0.792	0.794	-0.3	
BFB		0.731	0.699	4.4	
1,2-Dichloroethane-d4		0.913	0.705	22.8	

Samples
CN 569
CN 572
CN569MS
CN569MSD
CP661
CP662

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 11 Calibration date: 08/18/88 Time: 1709

Lab File ID: GT880818B11 Init. Calib. Date(s): 07/25/88 07/25/88

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D		sample #s
Chloromethane	#	0.660	0.751	-13.8	#	
Bromomethane		1.386	1.220	12.0		
Vinyl Chloride	*	1.010	0.889	12.0	*	CN397
Chloroethane		0.690	0.542	21.5		CN399
Methylene Chloride		1.356	1.615	-19.1		CN400
Acetone		0.394	0.358	9.1		
Carbon Disulfide		3.358	3.350	0.2		CN401
1,1-Dichloroethene	*	1.210	1.184	2.1	*	
1,1-Dichloroethane	#	1.915	1.733	9.5	#	CN787
1,2-Dichloroethene (total)		1.303	1.290	1.0		
Chloroform	*	2.713	2.336	13.9	*	CN396
1,2-Dichloroethane		1.546	1.161	24.9		
2-Butanone		0.035	0.028	20.0		CN788
1,1,1-Trichloroethane		0.645	0.440	31.8		
Carbon Tetrachloride		0.652	0.424	35.0		
Vinyl Acetate		0.509	0.438	14.0		
Bromodichloromethane		0.633	0.469	25.9		
1,2-Dichloropropane	*	0.314	0.286	8.9	*	
cis-1,3-Dichloropropene		0.446	0.355	20.4		
Trichloroethene		0.594	0.464	21.9		
Dibromochloromethane		0.707	0.510	27.9		
1,1,2-Trichloroethane		0.407	0.357	12.3		
Benzene		0.838	0.739	11.8		
Trans-1,3-Dichloropropene		0.353	0.252	28.6		
Bromoform	#	0.473	0.305	35.5	#	
4-Methyl-2-Pentanone		0.414	0.363	12.3		
2-Hexanone		0.329	0.268	18.5		
Tetrachloroethene		0.574	0.439	23.5		
1,1,2,2-Tetrachloroethane	#	0.587	0.613	-4.4	#	
Toluene	*	0.650	0.617	5.1	*	
Chlorobenzene	#	1.083	0.961	11.3	#	
Ethylbenzene	*	0.478	0.440	8.0	*	
Styrene		1.043	0.860	17.6		
Total Xylenes		1.289	1.092	15.3		
Toluene-d8		1.061	0.951	10.4		
BFB		0.807	0.672	16.7		
1,2-Dichloroethane-d4		1.546	1.066	31.1		

ORIGINAL (Red)

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 18 Calibration date: 08/18/88 Time: 0711

Lab File ID: CS880818C18 Init. Calib. Date(s): 08/16/88 08/17/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.666	0.506	24.0	#
Bromomethane		0.743	0.806	-8.5	
Vinyl Chloride	*	0.909	0.863	5.1	*
Chloroethane		0.546	0.445	18.5	
Methylene Chloride		0.601	0.587	2.3	
Acetone		0.141	0.149	-5.7	
Carbon Disulfide		1.361	1.489	-9.4	
1,1-Dichloroethene	*	0.767	0.738	3.8	*
1,1-Dichloroethane	#	0.834	0.765	8.3	#
1,2-Dichloroethene (total)		0.774	0.738	4.7	
Chloroform	*	1.544	1.336	13.5	*
1,2-Dichloroethane		0.840	0.674	19.8	
2-Butanone		0.015	0.016	-6.7	
1,1,1-Trichloroethane		0.436	0.365	16.3	
Carbon Tetrachloride		0.517	0.448	13.4	
Vinyl Acetate		0.284	0.292	-2.8	
Bromodichloromethane		0.447	0.385	13.9	
1,2-Dichloropropane	*	0.183	0.178	2.7	*
cis-1,3-Dichloropropene		0.289	0.261	9.7	
Trichloroethene		0.514	0.510	0.8	
Dibromochloromethane		0.797	0.714	10.4	
1,1,2-Trichloroethane		0.378	0.360	4.8	
Benzene		0.473	0.469	0.8	
Trans-1,3-Dichloropropene		0.289	0.214	26.0	
Bromoform	#	0.538	0.486	9.7	#
4-Methyl-2-Pentanone		0.190	0.194	-2.1	
2-Hexanone		0.144	0.141	2.1	
Tetrachloroethene		0.471	0.468	0.6	
1,1,2,2-Tetrachloroethane	#	0.518	0.455	12.2	#
Toluene	*	0.446	0.429	3.8	*
Chlorobenzene	#	0.852	0.826	3.1	#
Ethylbenzene	*	0.349	0.331	5.2	*
Styrene		0.873	0.828	5.2	
Total Xylenes		1.062	0.798	24.9	
Toluene-d8		0.792	0.748	5.6	
BFB		0.731	0.650	11.1	
1,2-Dichloroethane-d4		0.913	0.677	25.9	

Samples
CN789
CN571

ORIGINAL (Red)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 18 Calibration date: 08/17/88 Time: 0454

Lab File ID: CW880817C18 Init. Calib. Date(s): 08/16/88 08/17/88

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.666	0.643	3.5	#
Bromomethane		0.743	0.908	-22.2	
Vinyl Chloride	*	0.909	1.004	-10.5	*
Chloroethane		0.546	0.566	-3.7	
Methylene Chloride		0.601	0.643	-7.0	
Acetone		0.141	0.144	-2.1	
Carbon Disulfide		1.361	1.332	2.1	
1,1-Dichloroethene	*	0.767	0.679	11.5	*
1,1-Dichloroethane	#	0.834	0.784	6.0	#
1,2-Dichloroethene (total)		0.774	0.737	4.8	
Chloroform	*	1.544	1.444	6.5	*
1,2-Dichloroethane		0.840	0.782	6.9	
2-Butanone		0.015	0.015	0.0	
1,1,1-Trichloroethane		0.436	0.424	2.8	
Carbon Tetrachloride		0.517	0.526	-1.7	
Vinyl Acetate		0.284	0.255	10.2	
Bromodichloromethane		0.447	0.418	6.5	
1,2-Dichloropropane	*	0.183	0.164	10.4	*
cis-1,3-Dichloropropene		0.289	0.254	12.1	
Trichloroethene		0.514	0.506	1.6	
Dibromochloromethane		0.797	0.783	1.8	
1,1,2-Trichloroethane		0.378	0.349	7.7	
Benzene		0.473	0.429	9.3	
Trans-1,3-Dichloropropene		0.289	0.238	17.7	
Bromoform	#	0.538	0.519	3.5	#
4-Methyl-2-Pentanone		0.190	0.169	11.1	
2-Hexanone		0.144	0.126	12.5	
Tetrachloroethene		0.471	0.476	-1.1	
1,1,2,2-Tetrachloroethane	#	0.518	0.448	13.5	#
Toluene	*	0.446	0.415	7.0	*
Chlorobenzene	#	0.852	0.836	1.9	#
Ethylbenzene	*	0.349	0.335	4.0	*
Styrene		0.873	0.821	6.0	
Total Xylenes		1.062	1.028	3.2	
Toluene-d8		0.792	0.783	1.1	
BFB		0.731	0.699	4.4	
1,2-Dichloroethane-d4		0.913	0.831	9.0	

Samples
CN514
CN515
CN517
CN516
CN570

ORIGINAL (Red)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 13 Calibration date: 08/17/88 Time: 0128

Lab File ID: GS880817C13 Init. Calib. Date(s): 08/15/88 08/15/88

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	1.505	1.484	1.4	#
Bromomethane		2.974	2.472	16.9	
Vinyl Chloride	*	2.045	1.864	8.9	*
Chloroethane		1.017	0.942	7.4	
Methylene Chloride		2.230	2.155	3.4	
Acetone		0.390	0.353	9.5	
Carbon Disulfide		4.375	4.627	-5.8	
1,1-Dichloroethene	*	1.182	1.395	-18.0	*
1,1-Dichloroethane	#	2.274	3.041	-33.7	#
1,2-Dichloroethene (total)		1.326	1.728	-30.3	
Chloroform	*	3.007	3.451	-14.8	*
1,2-Dichloroethane		1.729	2.125	-22.9	
2-Butanone		0.035	0.020	42.9	
1,1,1-Trichloroethane		0.670	0.803	-19.9	
Carbon Tetrachloride		0.614	0.737	-20.0	
Vinyl Acetate		0.571	0.548	4.0	
Bromodichloromethane		0.673	0.713	-5.9	
1,2-Dichloropropane	*	0.397	0.430	-8.3	*
cis-1,3-Dichloropropene		0.428	0.427	0.2	
Trichloroethene		0.530	0.514	3.0	
Dibromochloromethane		0.685	0.588	14.2	
1,1,2-Trichloroethane		0.457	0.417	8.8	
Benzene		0.917	1.042	-13.6	
Trans-1,3-Dichloropropene		0.391	0.360	7.9	
Bromoform	#	0.486	0.400	17.7	#
4-Methyl-2-Pentanone		0.330	0.364	-10.3	
2-Hexanone		0.323	0.256	20.7	
Tetrachloroethene		0.585	0.615	-5.1	
1,1,2,2-Tetrachloroethane	#	0.678	0.556	18.0	#
Toluene	*	0.584	0.584	0.0	*
Chlorobenzene	#	0.962	0.956	0.6	#
Ethylbenzene	*	0.394	0.389	1.3	*
Styrene		0.963	0.881	8.5	
Total Xylenes		1.175	1.090	7.2	
Toluene-d8		1.095	1.093	0.2	
BFB		0.796	0.824	-3.5	
1,2-Dichloroethane-d4		1.845	2.104	-14.0	

samples
VB1KE9
CN394
CN398MS
CN398MSD

ORIGINAL (Red)

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/22/88 Time: 2247

Lab File ID: HH880822B08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D		
Phenol	*	1.573	1.882	-19.6	*	sample #5
bis(2-Chloroethyl)Ether		1.454	1.987	-36.7		
2-Chlorophenol		1.381	1.433	-3.8		
1,3-Dichlorobenzene		1.689	1.624	3.8		CN 401
1,4-Dichlorobenzene	*	1.638	1.695	-3.5	*	CN 787
Benzyl Alcohol		0.743	0.644	13.3		
1,2-Dichlorobenzene		1.515	1.572	-3.8		
2-Methylphenol		0.961	1.182	-23.0		
bis(2-Chloroisopropyl)Ether		1.062	3.130	-99.9		
4-Methylphenol		1.038	1.217	-17.2		
N-Nitroso-Di-n-Propylamine	#	0.842	1.364	-62.0	#	
Hexachloroethane		0.782	0.814	-4.1		
Nitrobenzene		0.405	0.618	-52.6		
Isophorone		0.864	0.961	-11.2		
2-Nitrophenol	*	0.244	0.213	12.7	*	
2,4-Dimethylphenol		0.416	0.380	8.7		
Benzoic Acid		0.124	0.161	-29.8		
bis(2-Chloroethoxy)Methane		0.572	0.657	-14.9		
2,4-Dichlorophenol	*	0.363	0.285	21.5	*	
1,2,4-Trichlorobenzene		0.463	0.355	23.3		
Naphthalene		1.149	1.170	-1.8		
4-Chloroaniline		0.423	0.275	35.0		
Hexachlorobutadiene	*	0.279	0.226	19.0	*	
4-Chloro-3-Methylphenol	*	0.401	0.330	17.7	*	
2-Methylnaphthalene		0.776	0.596	23.2		
Hexachlorocyclopentadiene	#	0.576	0.461	20.0	#	
2,4,6-Trichlorophenol	*	0.472	0.450	4.7	*	
2,4,5-Trichlorophenol		0.471	0.438	7.0		
2-Chloronaphthalene		1.544	1.567	-1.5		
2-Nitroaniline		0.346	0.557	-61.0		
Dimethyl Phthalate		1.639	1.416	13.6		
Acenaphthylene		1.910	1.857	2.8		
2,6-Dinitrotoluene		0.295	0.254	13.9		
3-Nitroaniline		0.268	0.220	17.9		
Acenaphthene	*	1.371	1.401	-2.2	*	
2,4-Dinitrophenol	#	0.119	0.090	24.4	#	
4-Nitrophenol	#	0.197	0.120	39.1	#	

ORIGINAL (Red)

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/22/88 Time: 2247

Lab File ID: HH880822B08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.751	1.769	-1.0
2,4-Dinitrotoluene	0.475	0.316	33.5
Diethylphthalate	1.670	1.270	24.0
4-Chlorophenyl-phenylether	0.638	0.573	10.2
Fluorene	1.252	1.194	4.6
4-Nitroaniline	0.275	0.192	30.2
4,6-Dinitro-2-Methylphenol	0.095	0.095	0.0
N-Nitrosodiphenylamine (1) *	0.520	0.551	-6.0 *
4-Bromophenyl-phenylether	0.284	0.259	8.8
Hexachlorobenzene	0.334	0.344	-3.0
Pentachlorophenol *	0.094	0.078	17.0 *
Phenanthrene	1.207	1.130	6.4
Anthracene	1.066	0.981	8.0
Di-n-Butylphthalate	1.582	1.110	29.8
Fluoranthene *	1.154	0.932	19.2 *
Pyrene	2.127	1.568	26.3
Butylbenzylphthalate	0.993	0.492	50.5
3,3'-Dichlorobenzidine	0.359	0.189	47.4
Benzo(a)Anthracene	1.505	0.965	35.9
Chrysene	1.276	0.965	24.4
bis(2-Ethylhexyl)Phthalate	1.980	0.708	64.2
Di-n-Octyl Phthalate *	2.588	2.037	21.3 *
Benzo(b)Fluoranthene	1.049	1.390	32.5
Benzo(k)Fluoranthene	1.019	0.924	9.3
Benzo(a)Pyrene *	1.181	1.076	8.9 *
Indeno(1,2,3-cd)Pyrene	1.308	1.106	15.4
Dibenz(a,h)Anthracene	1.072	0.795	25.8
Benzo(g,h,i)Perylene	1.063	1.021	4.0
Nitrobenzene-d5	0.469	0.588	-25.4
2-Fluorobiphenyl	1.561	1.760	-12.8
Terphenyl-d14	1.311	0.999	23.8
Phenol-d5	1.708	1.773	-3.8
2-Fluorophenol	1.501	1.536	-2.3
2,4,6-Tribromophenol	0.175	0.143	18.3

(1) Cannot be separated from Diphenylamine

ORIGINAL (Red)

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/18/88 Time: 0654

Lab File ID: HG880818C08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.573	1.872	-19.0	*
bis(2-Chloroethyl)Ether		1.454	1.647	-13.3	
2-Chlorophenol		1.381	1.456	-5.4	
1,3-Dichlorobenzene		1.689	1.612	4.6	
1,4-Dichlorobenzene	*	1.638	1.769	-8.0	*
Benzyl Alcohol		0.743	0.633	14.8	
1,2-Dichlorobenzene		1.515	1.599	-5.5	
2-Methylphenol		0.961	1.202	-25.1	
bis(2-Chloroisopropyl)Ether		1.062	2.564	-99.9	
4-Methylphenol		1.038	1.156	-11.4	
N-Nitroso-Di-n-Propylamine	#	0.842	1.357	-61.2	#
Hexachloroethane		0.782	0.799	-2.2	
Nitrobenzene		0.405	0.528	-30.4	
Isophorone		0.864	0.973	-12.6	
2-Nitrophenol	*	0.244	0.190	22.1	*
2,4-Dimethylphenol		0.416	0.407	2.2	
Benzoic Acid		0.124	0.143	-15.3	
bis(2-Chloroethoxy)Methane		0.572	0.550	3.8	
2,4-Dichlorophenol	*	0.363	0.298	17.9	*
1,2,4-Trichlorobenzene		0.463	0.333	28.1	
Naphthalene		1.149	1.135	1.2	
4-Chloroaniline		0.423	0.377	10.9	
Hexachlorobutadiene	*	0.279	0.212	24.0	*
4-Chloro-3-Methylphenol	*	0.401	0.349	13.0	*
2-Methylnaphthalene		0.776	0.637	17.9	
Hexachlorocyclopentadiene	#	0.576	0.097	83.2	#
2,4,6-Trichlorophenol	*	0.472	0.402	14.8	*
2,4,5-Trichlorophenol		0.471	0.382	18.9	
2-Chloronaphthalene		1.544	1.443	6.5	
2-Nitroaniline		0.346	0.535	-54.6	
Dimethyl Phthalate		1.639	1.569	4.3	
Acenaphthylene		1.910	1.729	9.5	
2,6-Dinitrotoluene		0.295	0.231	21.7	
3-Nitroaniline		0.268	0.229	14.6	
Acenaphthene	*	1.371	1.480	-8.0	*
2,4-Dinitrophenol	#	0.119	0.053	55.5	#
4-Nitrophenol	#	0.197	0.329	-67.0	#

Sample #s

CN398
CN398 MS
CN398 MSD

ORIGINAL (Red)

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/18/88 Time: 0654

Lab File ID: HG880818C08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibenzofuran		1.751	1.735	0.9	
2,4-Dinitrotoluene		0.475	0.359	24.4	
Diethylphthalate		1.670	1.659	0.7	
4-Chlorophenyl-phenylether		0.638	0.560	12.2	
Fluorene		1.252	1.315	-5.0	
4-Nitroaniline		0.275	0.207	24.7	
4,6-Dinitro-2-Methylphenol		0.095	0.053	44.2	
N-Nitrosodiphenylamine (1)	*	0.520	0.559	-7.5	*
4-Bromophenyl-phenylether		0.284	0.218	23.2	
Hexachlorobenzene		0.334	0.257	23.1	
Pentachlorophenol	*	0.094	0.097	-3.2	*
Phenanthrene		1.207	1.094	9.4	
Anthracene		1.066	0.955	10.4	
Di-n-Butylphthalate		1.582	1.259	20.4	
Fluoranthene	*	1.154	0.868	24.8	*
Pyrene		2.127	1.551	27.1	
Butylbenzylphthalate		0.993	0.557	43.9	
3,3'-Dichlorobenzidine		0.359	0.238	33.7	
Benzo(a)Anthracene		1.505	1.031	31.5	
Chrysene		1.276	1.005	21.2	
bis(2-Ethylhexyl)Phthalate		1.980	1.000	49.5	
Di-n-Octyl Phthalate	*	2.588	2.026	21.7	*
Benzo(b)Fluoranthene		1.049	1.160	-10.6	
Benzo(k)Fluoranthene		1.019	1.140	-11.9	
Benzo(a)Pyrene	*	1.181	1.068	9.6	*
Indeno(1,2,3-cd)Pyrene		1.308	1.064	18.7	
Dibenz(a,h)Anthracene		1.072	0.883	17.6	
Benzo(g,h,i)Perylene		1.063	0.789	25.8	
Nitrobenzene-d5		0.469	0.536	-14.3	
2-Fluorobiphenyl		1.561	1.532	1.9	
Terphenyl-d14		1.311	1.000	23.7	
Phenol-d5		1.708	1.611	5.7	
2-Fluorophenol		1.501	1.485	1.1	
2,4,6-Tribromophenol		0.175	0.123	29.7	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/23/88 Time: 1104

Lab File ID: HG880823A08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D		Sample #s
Phenol	*	1.573	1.480	5.9	*	
bis(2-Chloroethyl)Ether		1.454	1.351	7.1		
2-Chlorophenol		1.381	1.295	6.2		CN399
1,3-Dichlorobenzene		1.689	1.483	12.2		CN400
1,4-Dichlorobenzene	*	1.638	1.616	1.3	*	
Benzyl Alcohol		0.743	0.518	30.3		CN787RE
1,2-Dichlorobenzene		1.515	1.396	7.9		CN788
2-Methylphenol		0.961	0.883	8.1		
bis(2-Chloroisopropyl)Ether		1.062	2.019	-90.1		CN397
4-Methylphenol		1.038	0.984	5.2		
N-Nitroso-Di-n-Propylamine	#	0.842	0.953	-13.2	#	
Hexachloroethane		0.782	0.790	-1.0		
Nitrobenzene		0.405	0.501	-23.7		
Isophorone		0.864	0.816	5.6		
2-Nitrophenol	*	0.244	0.212	13.1	*	
2,4-Dimethylphenol		0.416	0.371	10.8		
Benzoic Acid		0.124	0.133	-7.3		
bis(2-Chloroethoxy)Methane		0.572	0.497	13.1		
2,4-Dichlorophenol	*	0.363	0.292	19.6	*	
1,2,4-Trichlorobenzene		0.463	0.394	14.9		
Naphthalene		1.149	1.165	-1.4		
4-Chloroaniline		0.423	0.300	29.1		
Hexachlorobutadiene	*	0.279	0.214	23.3	*	
4-Chloro-3-Methylphenol	*	0.401	0.306	23.7	*	
2-Methylnaphthalene		0.776	0.682	12.1		
Hexachlorocyclopentadiene	#	0.576	0.343	40.5	#	
2,4,6-Trichlorophenol	*	0.472	0.413	12.5	*	
2,4,5-Trichlorophenol		0.471	0.372	21.0		
2-Chloronaphthalene		1.544	1.473	4.6		
2-Nitroaniline		0.346	0.414	-19.7		
Dimethyl Phthalate		1.639	1.436	12.4		
Acenaphthylene		1.910	1.807	5.4		
2,6-Dinitrotoluene		0.295	0.241	18.3		
3-Nitroaniline		0.268	0.198	26.1		
Acenaphthene	*	1.371	1.374	-0.2	*	
2,4-Dinitrophenol	#	0.119	0.088	26.1	#	
4-Nitrophenol	#	0.197	0.163	17.3	#	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/23/88 Time: 1104

Lab File ID: HG880823A08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibenzofuran		1.751	1.719	1.8	
2,4-Dinitrotoluene		0.475	0.349	26.5	
Diethylphthalate		1.670	1.429	14.4	
4-Chlorophenyl-phenylether		0.638	0.560	12.2	
Fluorene		1.252	1.187	5.2	
4-Nitroaniline		0.275	0.198	28.0	
4,6-Dinitro-2-Methylphenol		0.095	0.084	11.6	
N-Nitrosodiphenylamine (1)	*	0.520	0.543	-4.4	*
4-Bromophenyl-phenylether		0.284	0.219	22.9	
Hexachlorobenzene		0.334	0.265	20.7	
Pentachlorophenol	*	0.094	0.077	18.1	*
Phenanthrene		1.207	1.051	12.9	
Anthracene		1.066	0.931	12.7	
Di-n-Butylphthalate		1.582	1.008	36.3	
Fluoranthene	*	1.154	0.879	23.8	*
Pyrene		2.127	1.710	19.6	
Butylbenzylphthalate		0.993	0.559	43.7	
3,3'-Dichlorobenzidine		0.359	0.208	42.1	
Benzo(a)Anthracene		1.505	0.941	37.5	
Chrysene		1.276	1.020	20.1	
bis(2-Ethylhexyl)Phthalate		1.980	0.782	60.5	
Di-n-Octyl Phthalate	*	2.588	1.966	24.0	*
Benzo(b)Fluoranthene		1.049	1.299	-23.8	
Benzo(k)Fluoranthene		1.019	1.136	-11.5	
Benzo(a)Pyrene	*	1.181	1.112	5.8	*
Indeno(1,2,3-cd)Pyrene		1.308	1.095	16.3	
Dibenz(a,h)Anthracene		1.072	0.869	18.9	
Benzo(g,h,i)Perylene		1.063	0.946	11.0	
Nitrobenzene-d5		0.469	0.495	-5.5	
2-Fluorobiphenyl		1.561	1.632	-4.5	
Terphenyl-d14		1.311	0.986	24.8	
Phenol-d5		1.708	1.276	25.3	
2-Fluorophenol		1.501	1.206	19.7	
2,4,6-Tribromophenol		0.175	0.107	38.9	

(1) Cannot be separated from Diphenylamine

ORIGINAL

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/26/88 Time: 1527

Lab File ID: HG880826A08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.573	1.650	-4.9	*
bis(2-Chloroethyl)Ether		1.454	1.347	7.4	
2-Chlorophenol		1.381	1.409	-2.0	
1,3-Dichlorobenzene		1.689	1.564	7.4	
1,4-Dichlorobenzene	*	1.638	1.628	0.6	*
Benzyl Alcohol		0.743	0.767	-3.2	
1,2-Dichlorobenzene		1.515	1.536	-1.4	
2-Methylphenol		0.961	1.078	-12.2	
bis(2-Chloroisopropyl)Ether		1.062	1.647	-55.1	
4-Methylphenol		1.038	1.094	-5.4	
N-Nitroso-Di-n-Propylamine	#	0.842	1.135	-34.8	#
Hexachloroethane		0.782	0.762	2.6	
Nitrobenzene		0.405	0.530	-30.9	
Isophorone		0.864	0.867	-0.3	
2-Nitrophenol	*	0.244	0.224	8.2	*
2,4-Dimethylphenol		0.416	0.426	-2.4	
Benzoic Acid		0.124	0.058	52.4	
bis(2-Chloroethoxy)Methane		0.572	0.501	12.4	
2,4-Dichlorophenol	*	0.363	0.317	12.7	*
1,2,4-Trichlorobenzene		0.463	0.394	14.9	
Naphthalene		1.149	1.176	-2.4	
4-Chloroaniline		0.423	0.533	-26.0	
Hexachlorobutadiene	*	0.279	0.244	12.5	*
4-Chloro-3-Methylphenol	*	0.401	0.382	4.7	*
2-Methylnaphthalene		0.776	0.686	11.6	
Hexachlorocyclopentadiene	#	0.576	0.429	25.5	#
2,4,6-Trichlorophenol	*	0.472	0.443	6.1	*
2,4,5-Trichlorophenol		0.471	0.425	9.8	
2-Chloronaphthalene		1.544	1.485	3.8	
2-Nitroaniline		0.346	0.482	-39.3	
Dimethyl Phthalate		1.639	1.552	5.3	
Acenaphthylene		1.910	1.816	4.9	
2,6-Dinitrotoluene		0.295	0.269	8.8	
3-Nitroaniline		0.268	0.266	0.7	
Acenaphthene	*	1.371	1.296	5.5	*
2,4-Dinitrophenol	#	0.119	0.083	30.3	#
4-Nitrophenol	#	0.197	0.345	-75.1	#

Samples CN 394

23 of 33
ORIGINAL (Red)

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 08 Calibration date: 08/26/88 Time: 1527

Lab File ID: HG880826A08 Init. Calib. Date(s): 02/04/88 02/04/88

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.751	1.713	2.2
2,4-Dinitrotoluene	0.475	0.358	24.6
Diethylphthalate	1.670	1.571	5.9
4-Chlorophenyl-phenylether	0.638	0.607	4.9
Fluorene	1.252	1.331	-6.3
4-Nitroaniline	0.275	0.298	-8.4
4,6-Dinitro-2-Methylphenol	0.095	0.077	19.0
N-Nitrosodiphenylamine (1) *	0.520	0.551	-6.0 *
4-Bromophenyl-phenylether	0.284	0.222	21.8
Hexachlorobenzene	0.334	0.257	23.1
Pentachlorophenol *	0.094	0.081	13.8 *
Phenanthrene	1.207	1.082	10.4
Anthracene	1.066	0.982	7.9
Di-n-Butylphthalate	1.582	1.436	9.2
Fluoranthene *	1.154	0.929	19.5 *
Pyrene	2.127	1.660	22.0
Butylbenzylphthalate	0.993	0.871	12.3
3,3'-Dichlorobenzidine	0.359	0.376	-4.7
Benzo(a)Anthracene	1.505	1.142	24.1
Chrysene	1.276	0.982	23.0
bis(2-Ethylhexyl)Phthalate	1.980	1.227	38.0
Di-n-Octyl Phthalate *	2.588	1.957	24.4 *
Benzo(b)Fluoranthene	1.049	1.241	-18.3
Benzo(k)Fluoranthene	1.019	0.863	15.3
Benzo(a)Pyrene *	1.181	1.075	9.0 *
Indeno(1,2,3-cd)Pyrene	1.308	1.227	6.2
Dibenz(a,h)Anthracene	1.072	1.006	6.2
Benzo(g,h,i)Perylene	1.063	1.010	5.0
Nitrobenzene-d5	0.469	0.603	-28.6
2-Fluorobiphenyl	1.561	1.566	-0.3
Terphenyl-d14	1.311	1.213	7.5
Phenol-d5	1.708	1.430	16.3
2-Fluorophenol	1.501	1.446	3.7
2,4,6-Tribromophenol	0.175	0.134	23.4

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 20 Calibration date: 08/16/88 Time: 0059

Lab File ID: HG880816C20 Init. Calib. Date(s): 12/09/87 12/10/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

Samples CN569

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.904	2.282	-19.9	*
bis(2-Chloroethyl)Ether		1.823	2.181	-19.6	
2-Chlorophenol		1.613	1.602	0.7	
1,3-Dichlorobenzene		1.658	1.824	-10.0	
1,4-Dichlorobenzene	*	1.710	1.651	3.5	*
Benzyl Alcohol		0.979	1.095	-11.9	
1,2-Dichlorobenzene		1.587	1.597	-0.6	
2-Methylphenol		1.341	1.524	-13.7	
bis(2-Chloroisopropyl)Ether		2.366	1.997	15.6	
4-Methylphenol		1.445	1.536	-6.3	
N-Nitroso-Di-n-Propylamine	#	1.375	1.401	-1.9	#
Hexachloroethane		0.940	0.892	5.1	
Nitrobenzene		0.527	0.531	-0.8	
Isophorone		0.884	1.159	-31.1	
2-Nitrophenol	*	0.205	0.239	-16.6	*
2,4-Dimethylphenol		0.432	0.474	-9.7	
Benzoic Acid		0.128	0.201	-57.0	
bis(2-Chloroethoxy)Methane		0.631	0.655	-3.8	
2,4-Dichlorophenol	*	0.293	0.299	-2.0	*
1,2,4-Trichlorobenzene		0.335	0.354	-5.7	
Naphthalene		1.127	1.067	5.3	
4-Chloroaniline		0.530	0.429	19.1	
Hexachlorobutadiene	*	0.198	0.206	-4.0	*
4-Chloro-3-Methylphenol	*	0.413	0.474	-14.8	*
2-Methylnaphthalene		0.687	0.733	-6.7	
Hexachlorocyclopentadiene	#	0.395	0.350	11.4	#
2,4,6-Trichlorophenol	*	0.395	0.426	-7.8	*
2,4,5-Trichlorophenol		0.388	0.402	-3.6	
2-Chloronaphthalene		1.322	1.198	9.4	
2-Nitroaniline		0.508	0.628	-23.6	
Dimethyl Phthalate		1.396	1.681	-20.4	
Acenaphthylene		1.844	1.744	5.4	
2,6-Dinitrotoluene		0.276	0.267	3.3	
3-Nitroaniline		0.284	0.347	-22.2	
Acenaphthene	*	1.301	1.177	9.5	*
2,4-Dinitrophenol	#	0.091	0.104	-14.3	#
4-Nitrophenol	#	0.236	0.235	0.4	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 20 Calibration date: 08/16/88 Time: 0059

Lab File ID: HG880816C20 Init. Calib. Date(s): 12/09/87 12/10/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.652	1.550	6.2	
2,4-Dinitrotoluene	0.366	0.377	-3.0	
Diethylphthalate	1.544	1.829	-18.5	
4-Chlorophenyl-phenylether	0.569	0.482	15.3	
Fluorene	1.297	1.240	4.4	
4-Nitroaniline	0.279	0.288	-3.2	
4,6-Dinitro-2-Methylphenol	0.099	0.108	-9.1	
N-Nitrosodiphenylamine (1)	0.583	0.497	14.8	*
4-Bromophenyl-phenylether	0.243	0.222	8.6	
Hexachlorobenzene	0.286	0.261	8.7	
Pentachlorophenol	0.090	0.108	-20.0	*
Phenanthrene	1.159	0.940	18.9	
Anthracene	1.041	0.880	15.5	
Di-n-Butylphthalate	1.452	1.803	-24.2	
Fluoranthene	0.978	0.992	-1.4	*
Pyrene	1.707	1.543	9.6	
Butylbenzylphthalate	0.855	1.019	-19.2	
3,3'-Dichlorobenzidine	0.277	0.330	-19.1	
Benzo(a)Anthracene	1.234	1.196	3.1	
Chrysene	1.229	0.939	23.6	
bis(2-Ethylhexyl)Phthalate	1.378	1.361	1.2	
Di-n-Octyl Phthalate	2.530	2.935	-16.0	*
Benzo(b)Fluoranthene	1.132	1.090	3.7	
Benzo(k)Fluoranthene	1.316	1.090	17.2	
Benzo(a)Pyrene	1.109	1.122	-1.2	*
Indeno(1,2,3-cd)Pyrene	1.226	1.312	-7.0	
Dibenz(a,h)Anthracene	1.002	1.036	-3.4	
Benzo(g,h,i)Perylene	1.047	1.057	-1.0	
Nitrobenzene-d5	0.570	0.554	2.8	
2-Fluorobiphenyl	1.420	1.359	4.3	
Terphenyl-d14	0.948	1.173	-23.7	
Phenol-d5	1.827	2.025	-10.8	
2-Fluorophenol	1.482	1.942	-31.0	
2,4,6-Tribromophenol	0.140	0.176	-25.7	

(1) Cannot be separated from Diphenylamine

ORIGINAL (Red)

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 20 Calibration date: 08/17/88 Time: 0758

Lab File ID: HG880817C20 Init. Calib. Date(s): 12/09/87 12/10/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D		Samples
Phenol	*	1.904	2.145	-12.7	*	CN 514
bis(2-Chloroethyl)Ether		1.823	1.833	-0.5		CN 516
2-Chlorophenol		1.613	1.566	2.9		CN 517
1,3-Dichlorobenzene		1.658	1.647	0.7		CN 572
1,4-Dichlorobenzene	*	1.710	1.627	4.9	*	CN 570
Benzyl Alcohol		0.979	0.940	4.0		CN 571
1,2-Dichlorobenzene		1.587	1.607	-1.3		CN 569MS
2-Methylphenol		1.341	1.442	-7.5		CN 569MSD
bis(2-Chloroisopropyl)Ether		2.366	2.496	-5.5		
4-Methylphenol		1.445	1.431	1.0		
N-Nitroso-Di-n-Propylamine	#	1.375	1.528	-11.1	#	
Hexachloroethane		0.940	0.917	2.4		
Nitrobenzene		0.527	0.538	-2.1		
Isophorone		0.884	1.045	-18.2		
2-Nitrophenol	*	0.205	0.214	-4.4	*	
2,4-Dimethylphenol		0.432	0.424	1.9		
Benzoic Acid		0.128	0.172	-34.4		
bis(2-Chloroethoxy)Methane		0.631	0.571	9.5		
2,4-Dichlorophenol	*	0.293	0.280	4.4	*	
1,2,4-Trichlorobenzene		0.335	0.338	-0.9		
Naphthalene		1.127	1.120	0.6		
4-Chloroaniline		0.530	0.397	25.1		
Hexachlorobutadiene	*	0.198	0.220	-11.1	*	
4-Chloro-3-Methylphenol	*	0.413	0.434	-5.1	*	
2-Methylnaphthalene		0.687	0.744	-8.3		
Hexachlorocyclopentadiene	#	0.395	0.304	23.0	#	
2,4,6-Trichlorophenol	*	0.395	0.385	2.5	*	
2,4,5-Trichlorophenol		0.388	0.397	-2.3		
2-Chloronaphthalene		1.322	1.154	12.7		
2-Nitroaniline		0.508	0.560	-10.2		
Dimethyl Phthalate		1.396	1.507	-8.0		
Acenaphthylene		1.844	1.727	6.3		
2,6-Dinitrotoluene		0.276	0.269	2.5		
3-Nitroaniline		0.284	0.317	-11.6		
Acenaphthene	*	1.301	1.159	10.9	*	
2,4-Dinitrophenol	#	0.091	0.088	3.3	#	
4-Nitrophenol	#	0.236	0.258	-9.3	#	

ORIGINAL (Red)

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 20 Calibration date: 08/17/88 Time: 0758

Lab File ID: HG880817C20 Init. Calib. Date(s): 12/09/87 12/10/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50	%D	
Dibenzofuran	1.652	1.565	5.3	
2,4-Dinitrotoluene	0.366	0.386	-5.5	
Diethylphthalate	1.544	1.658	-7.4	
4-Chlorophenyl-phenylether	0.569	0.546	4.0	
Fluorene	1.297	1.268	2.2	
4-Nitroaniline	0.279	0.260	6.8	
4,6-Dinitro-2-Methylphenol	0.099	0.088	11.1	
N-Nitrosodiphenylamine (1) *	0.583	0.479	17.8	*
4-Bromophenyl-phenylether	0.243	0.233	4.1	
Hexachlorobenzene	0.286	0.292	-2.1	
Pentachlorophenol *	0.090	0.111	-23.3	*
Phenanthrene	1.159	0.981	15.4	
Anthracene	1.041	0.907	12.9	
Di-n-Butylphthalate	1.452	1.658	-14.2	
Fluoranthene *	0.978	1.089	-11.4	*
Pyrene	1.707	1.281	25.0	
Butylbenzylphthalate	0.855	0.778	9.0	
3,3'-Dichlorobenzidine	0.277	0.400	-44.4	
Benzo(a)Anthracene	1.234	1.210	1.9	
Chrysene	1.229	0.889	27.7	
bis(2-Ethylhexyl)Phthalate	1.378	1.134	17.7	
Di-n-Octyl Phthalate *	2.530	2.299	9.1	*
Benzo(b)Fluoranthene	1.132	1.062	6.2	
Benzo(k)Fluoranthene	1.316	1.062	19.3	
Benzo(a)Pyrene *	1.109	1.143	-3.1	*
Indeno(1,2,3-cd)Pyrene	1.226	1.481	-20.8	
Dibenz(a,h)Anthracene	1.002	1.163	-16.1	
Benzo(g,h,i)Perylene	1.047	1.240	-18.4	
Nitrobenzene-d5	0.570	0.520	8.8	
2-Fluorobiphenyl	1.420	1.319	7.1	
Terphenyl-d14	0.948	1.037	-9.4	
Phenol-d5	1.827	1.841	-0.8	
2-Fluorophenol	1.482	1.512	-2.0	
2,4,6-Tribromophenol	0.140	0.218	-55.7	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 20 Calibration date: 08/17/88 Time: 2302

Lab File ID: HH880817B20 Init. Calib. Date(s): 12/09/87 12/10/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.904	2.284	-20.0	*
bis(2-Chloroethyl)Ether		1.823	2.205	-21.0	
2-Chlorophenol		1.613	1.643	-1.9	
1,3-Dichlorobenzene		1.658	1.865	-12.5	
1,4-Dichlorobenzene	*	1.710	1.753	-2.5	*
Benzyl Alcohol		0.979	1.022	-4.4	
1,2-Dichlorobenzene		1.587	1.649	-3.9	
2-Methylphenol		1.341	1.563	-16.6	
bis(2-Chloroisopropyl)Ether		2.366	1.763	25.5	
4-Methylphenol		1.445	1.612	-11.6	
N-Nitroso-Di-n-Propylamine	#	1.375	1.246	9.4	#
Hexachloroethane		0.940	0.899	4.4	
Nitrobenzene		0.527	0.476	9.7	
Isophorone		0.884	0.999	-13.0	
2-Nitrophenol	*	0.205	0.244	-19.0	*
2,4-Dimethylphenol		0.432	0.413	4.4	
Benzoic Acid		0.128	0.155	-21.1	
bis(2-Chloroethoxy)Methane		0.631	0.693	-9.8	
2,4-Dichlorophenol	*	0.293	0.307	-4.8	*
1,2,4-Trichlorobenzene		0.335	0.338	-0.9	
Naphthalene		1.127	1.147	-1.8	
4-Chloroaniline		0.530	0.442	16.6	
Hexachlorobutadiene	*	0.198	0.179	9.6	*
4-Chloro-3-Methylphenol	*	0.413	0.420	-1.7	*
2-Methylnaphthalene		0.687	0.734	-6.8	
Hexachlorocyclopentadiene	#	0.395	0.276	30.1	#
2,4,6-Trichlorophenol	*	0.395	0.401	-1.5	*
2,4,5-Trichlorophenol		0.388	0.399	-2.8	
2-Chloronaphthalene		1.322	1.341	-1.4	
2-Nitroaniline		0.508	0.358	29.5	
Dimethyl Phthalate		1.396	1.472	-5.4	
Acenaphthylene		1.844	1.888	-2.4	
2,6-Dinitrotoluene		0.276	0.264	4.3	
3-Nitroaniline		0.284	0.341	-20.1	
Acenaphthene	*	1.301	1.175	9.7	*
2,4-Dinitrophenol	#	0.091	0.089	2.2	#
4-Nitrophenol	#	0.236	0.112	52.5	#

Samples CN515

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 20 Calibration date: 08/17/88 Time: 2302

Lab File ID: HH880817B20 Init. Calib. Date(s): 12/09/87 12/10/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D	
Dibenzofuran	1.652	1.564	5.3	
2,4-Dinitrotoluene	0.366	0.339	7.4	
Diethylphthalate	1.544	1.556	-0.8	
4-Chlorophenyl-phenylether	0.569	0.449	21.1	
Fluorene	1.297	1.189	8.3	
4-Nitroaniline	0.279	0.248	11.1	
4,6-Dinitro-2-Methylphenol	0.099	0.089	10.1	
N-Nitrosodiphenylamine (1) *	0.583	0.545	6.5	*
4-Bromophenyl-phenylether	0.243	0.212	12.8	
Hexachlorobenzene	0.286	0.227	20.6	
Pentachlorophenol *	0.090	0.090	0.0	*
Phenanthrene	1.159	1.001	13.6	
Anthracene	1.041	0.945	9.2	
Di-n-Butylphthalate	1.452	1.558	-7.3	
Fluoranthene *	0.978	0.880	10.0	*
Pyrene	1.707	1.842	-7.9	
Butylbenzylphthalate	0.855	1.071	-25.3	
3,3'-Dichlorobenzidine	0.277	0.463	-67.2	
Benzo(a)Anthracene	1.234	1.460	-18.3	
Chrysene	1.229	1.300	-5.8	
bis(2-Ethylhexyl)Phthalate	1.378	1.527	-10.8	
Di-n-Octyl Phthalate *	2.530	2.807	-11.0	*
Benzo(b)Fluoranthene	1.132	1.220	-7.8	
Benzo(k)Fluoranthene	1.316	1.220	7.3	
Benzo(a)Pyrene *	1.109	1.182	-6.6	*
Indeno(1,2,3-cd)Pyrene	1.226	1.473	-20.2	
Dibenz(a,h)Anthracene	1.002	1.168	-16.6	
Benzo(g,h,i)Perylene	1.047	1.206	-15.2	
Nitrobenzene-d5	0.570	0.465	18.4	
2-Fluorobiphenyl	1.420	1.390	2.1	
Terphenyl-d14	0.948	1.292	-36.3	
Phenol-d5	1.827	2.085	-14.1	
2-Fluorophenol	1.482	1.875	-26.5	
2,4,6-Tribromophenol	0.140	0.114	18.6	

(1) Cannot be separated from Diphenylamine

Book 33

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 22 Calibration date: 08/21/88 Time: 0814

Lab File ID: HH880821A22 Init. Calib. Date(s): 12/18/87 12/18/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.649	1.577	4.4	*
bis(2-Chloroethyl)Ether		1.706	1.581	7.3	
2-Chlorophenol		1.329	1.381	-3.9	
1,3-Dichlorobenzene		1.647	1.602	2.7	
1,4-Dichlorobenzene	*	1.659	1.758	-6.0	*
Benzyl Alcohol		0.856	0.773	9.7	
1,2-Dichlorobenzene		1.542	1.618	-4.9	
2-Methylphenol		1.163	1.163	0.0	
bis(2-Chloroisopropyl)Ether		1.469	1.515	-3.1	
4-Methylphenol		1.299	1.283	1.2	
N-Nitroso-Di-n-Propylamine	#	0.960	0.947	1.4	#
Hexachloroethane		0.731	0.743	-1.6	
Nitrobenzene		0.404	0.375	7.2	
Isophorone		0.809	0.683	15.6	
2-Nitrophenol	*	0.209	0.196	6.2	*
2,4-Dimethylphenol		0.371	0.310	16.4	
Benzoic Acid		0.142	0.174	-22.5	
bis(2-Chloroethoxy)Methane		0.581	0.508	12.6	
2,4-Dichlorophenol	*	0.296	0.286	3.4	*
1,2,4-Trichlorobenzene		0.380	0.358	5.8	
Naphthalene		1.160	1.145	1.3	
4-Chloroaniline		0.501	0.367	26.8	
Hexachlorobutadiene	*	0.195	0.172	11.8	*
4-Chloro-3-Methylphenol	*	0.367	0.345	6.0	*
2-Methylnaphthalene		0.733	0.693	5.5	
Hexachlorocyclopentadiene	#	0.318	0.248	22.0	#
2,4,6-Trichlorophenol	*	0.371	0.387	-4.3	*
2,4,5-Trichlorophenol		0.370	0.390	-5.4	
2-Chloronaphthalene		1.365	1.249	8.5	
2-Nitroaniline		0.316	0.338	-7.0	
Dimethyl Phthalate		1.439	1.350	6.2	
Acenaphthylene		1.849	1.895	-2.5	
2,6-Dinitrotoluene		0.269	0.298	-10.8	
3-Nitroaniline		0.262	0.254	3.1	
Acenaphthene	*	1.285	1.213	5.6	*
2,4-Dinitrophenol	#	0.093	0.115	-23.7	#
4-Nitrophenol	#	0.136	0.111	18.4	#

sample #s
CP661
CP662

ORIGINAL (Red)

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Instrument ID: 22 Calibration date: 08/21/88 Time: 0814

Lab File ID: HH880821A22 Init. Calib. Date(s): 12/18/87 12/18/87

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.713	1.730	-1.0
2,4-Dinitrotoluene	0.377	0.420	-11.4
Diethylphthalate	1.553	1.434	7.7
4-Chlorophenyl-phenylether	0.608	0.543	10.7
Fluorene	1.296	1.294	0.2
4-Nitroaniline	0.225	0.268	-19.1
4,6-Dinitro-2-Methylphenol	0.088	0.111	-26.1
N-Nitrosodiphenylamine (1) *	0.532	0.517	2.8 *
4-Bromophenyl-phenylether	0.221	0.183	17.2
Hexachlorobenzene	0.272	0.199	26.8
Pentachlorophenol *	0.082	0.093	-13.4 *
Phenanthrene	1.087	1.093	-0.6
Anthracene	1.045	1.051	-0.6
Di-n-Butylphthalate	1.218	1.422	-16.8
Fluoranthene *	0.908	0.990	-9.0 *
Pyrene	1.798	1.761	2.1
Butylbenzylphthalate	0.750	0.865	-15.3
3,3'-Dichlorobenzidine	0.237	0.338	-42.6
Benzo(a)Anthracene	1.269	1.315	-3.6
Chrysene	1.209	1.228	-1.6
bis(2-Ethylhexyl)Phthalate	1.302	1.485	-14.1
Di-n-Octyl Phthalate *	2.196	2.729	-24.3 *
Benzo(b)Fluoranthene	0.977	1.214	-24.3
Benzo(k)Fluoranthene	0.977	1.214	-24.3
Benzo(a)Pyrene *	1.166	1.196	-2.6 *
Indeno(1,2,3-cd)Pyrene	1.395	1.246	10.7
Dibenz(a,h)Anthracene	1.101	1.019	7.4
Benzo(g,h,i)Perylene	1.157	1.015	12.3
Nitrobenzene-d5	0.439	0.372	15.3
2-Fluorobiphenyl	1.398	1.354	3.1
Terphenyl-d14	1.004	1.081	-7.7
Phenol-d5	1.693	1.330	21.4
2-Fluorophenol	1.346	1.122	16.6
2,4,6-Tribromophenol	0.150	0.094	37.3

(1) Cannot be separated from Diphenylamine

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 212199

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH012199B11

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/18/88

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	8	
67-64-1	Acetone	26	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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

33 & 33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
ORIGINAL (Red)
VBLKE9

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 212198

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH012198C13

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/17/88

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	13	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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	3	J
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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

ORIGINAL (Red)

SAMPLE NO.

VBLKWI

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB880817A18

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/17/88

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	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red) LKOW

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CC880817B18

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/17/88

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	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXJ

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB880818A18

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 08/18/88

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	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ORIGINAL (Red)

EPA SAMPLE NO.

SBLK87

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) WATER Lab Sample ID: 212103

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH012103C20

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/13/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/16/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenz(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK84

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: ORIGINAL (Red) 212098

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012098A08

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/18/88

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 212098

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH012098A08

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/18/88

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)Phthalate	330	U
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	330	U
207-08-9	Benzo(k)Fluoranthene	330	U
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK88

ORIGINAL (Red)

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) WATER Lab Sample ID: 212007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH012007A22

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/21/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 2.0

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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red) SB[redacted]

Lab Name: COMPUCHEM LABS Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) WATER Lab Sample ID: 212007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH012007A22

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/21/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 2.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	100	U
83-32-9	Acenaphthene	20	U
51-28-5	2,4-Dinitrophenol	100	U
100-02-7	4-Nitrophenol	100	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	100	U
534-52-1	4,6-Dinitro-2-Methylphenol	100	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	100	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
84-74-2	Di-n-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	40	U
56-55-3	Benzo(a)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)Phthalate	20	U
117-84-0	Di-n-Octyl Phthalate	20	U
205-99-2	Benzo(b)Fluoranthene	20	U
207-08-9	Benzo(k)Fluoranthene	20	U
50-32-8	Benzo(a)Pyrene	20	U
193-39-5	Indeno(1,2,3-cd)Pyrene	20	U
53-70-3	Dibenz(a,h)Anthracene	20	U
191-24-2	Benzo(g,h,i)Perylene	20	U

(1) - Cannot be separated from Diphenylamine

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

PBLK18

Lab Name: COMPUCHEM LABORATORIES Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) WATER Lab Sample ID: 212061

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

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ dec. _____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 08/20/88

GPC Cleanup: (Y/N) N pH: _____ 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	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
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

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK15 ORIGINAL (Red)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 212098

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

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ dec. _____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/88

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16.	U
72-55-9	4,4'-DDE	16.	U
72-20-8	Endrin	16.	U
33213-65-9	Endosulfan II	16.	U
72-54-8	4,4'-DDD	16.	U
1031-07-8	Endosulfan sulfate	16.	U
50-29-3	4,4'-DDT	16.	U
72-43-5	Methoxychlor	80.	U
53494-70-5	Endrin ketone	16.	U
5103-71-9	alpha-Chlordane	80.	U
5103-74-2	gamma-Chlordane	80.	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL
PBLK13 (Red)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-01-7397

Lab Code: COMPU Case No.: 10138 SAS No.: _____ SDG No.: CN396

Matrix: (soil/water) SOIL Lab Sample ID: 211999

Sample wt/vol: 30.9 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. _____ dec. _____ Date Extracted: 08/12/88

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/24/88

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16.	U
72-55-9	4,4'-DDE	16.	U
72-20-8	Endrin	16.	U
33213-65-9	Endosulfan II	16.	U
72-54-8	4,4'-DDD	16.	U
1031-07-8	Endosulfan sulfate	16.	U
50-29-3	4,4'-DDT	16.	U
72-43-5	Methoxychlor	80.	U
53494-70-5	Endrin ketone	16.	U
5103-71-9	alpha-Chlordane	80.	U
5103-74-2	gamma-Chlordane	80.	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

1.2.2 At the Site

ORIGINAL (Red)

Jon Reedy
Assistant Safety Director
General Crushed Stone Company
P.O. Box 231
Easton, PA 8042
(215) 253-4271

Tony Demassi
Operations Manager
General Crushed Stone Company
P.O. Box 231
Easton, PA 198042
(215) 459-2492

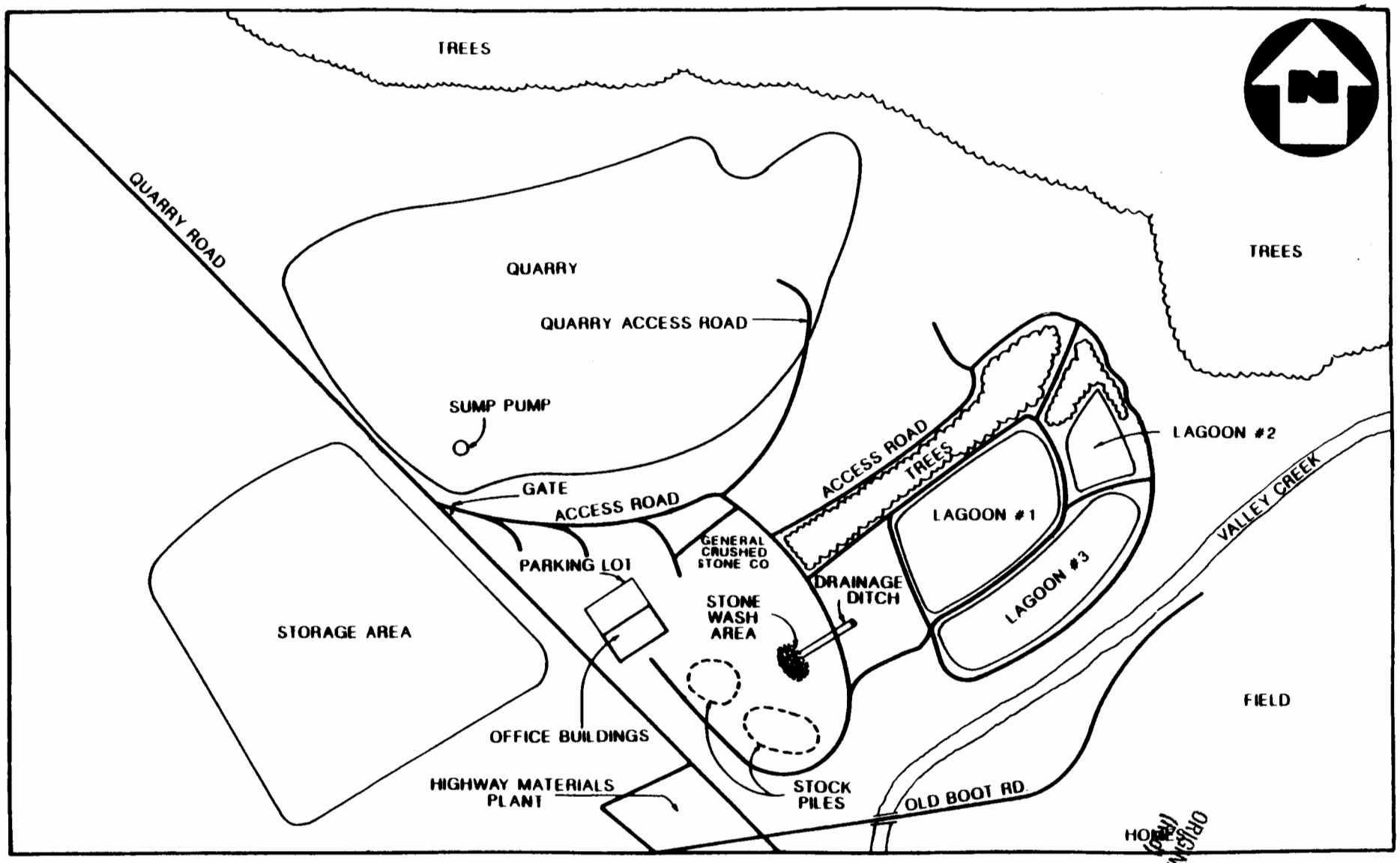
William Smith
Safety Director
Highway Materials, Incorporated
Morehall Road
Malvern, PA 19355
(215) 647-5902

1.3 Site Observations

- The HNU background reading was 0.4 ppm; no reading above background were recorded. ORIGINAL (Red)
- The radiation mini-alert was set on the X1 position. No readings above background were recorded.
- A spring was observed in the southern end of the west quarry wall, located 75 feet up the wall from the base of the quarry. It was feeding into the quarry sump pond.
- Lagoon no. 1 was covered with green algal scum. The water was slightly clouded with gray sediment.
- An NPDES pipe discharged from lagoon no. 3 to Valley Creek.
- Valley Creek was clear and odorless. Several species of fish were observed in Valley Creek.
- No drainage from the site to Valley Creek was observed, except via the NPDES discharge pipe.
- Vehicular traffic to the site was restricted by gates.
- The site perimeter was not restricted by a fence.
- Large berms of native soil surrounded most of the site, restricting visual and sound impact, as well as drainage.
- A large portion of the site was confined basin because of the quarry.

ORIGINAL
(Red)

ATTACHMENT 1



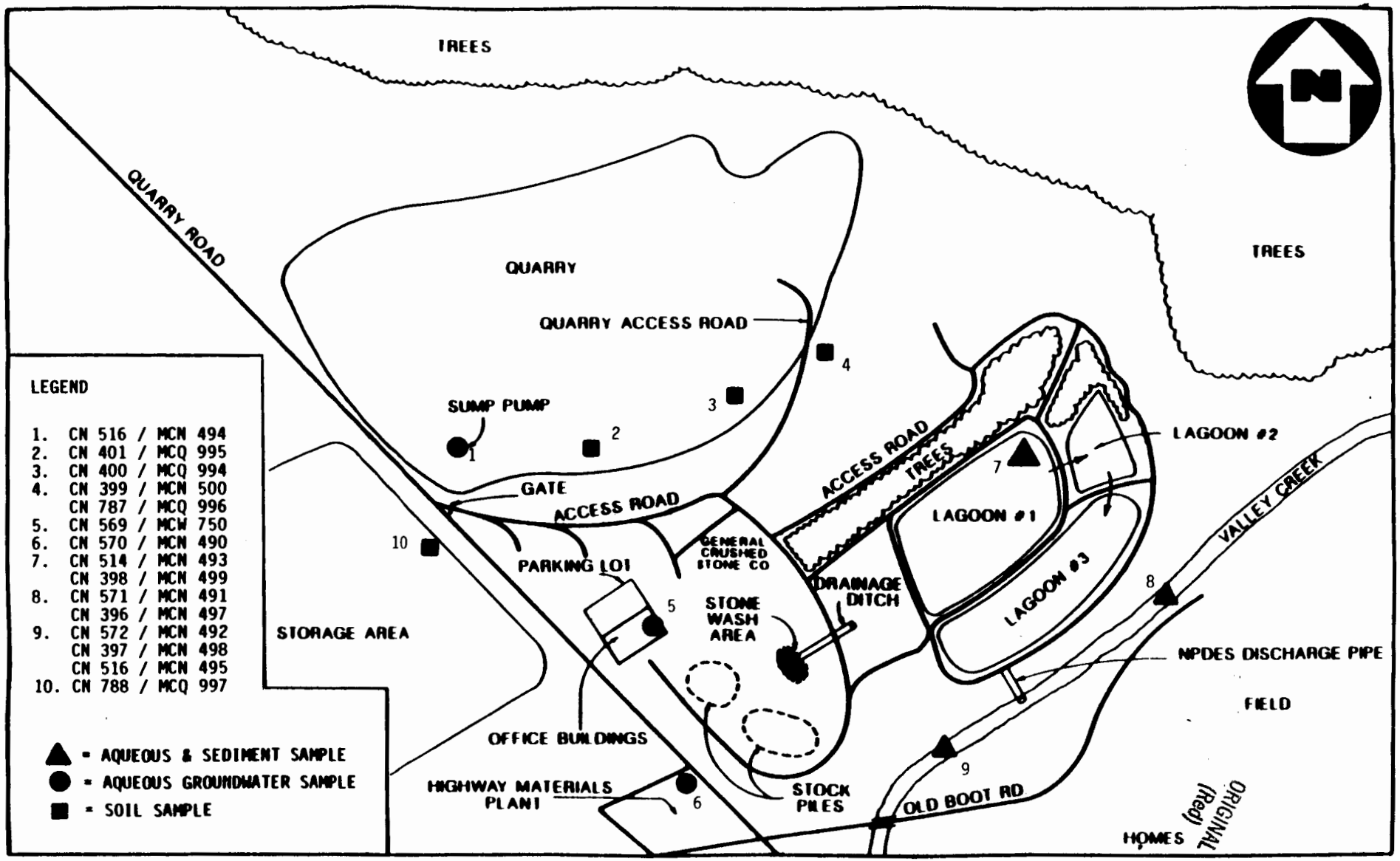
SITE SKETCH

HIGHWAY MATERIALS PLANT #6

(NO SCALE)

FIGURE 2

NUS CORPORATION



SAMPLE LOCATION MAP

HIGHWAY MATERIALS PLANT #6

(NO SCALE)

NUS CORPORATION

ATTACHMENT 2

8807-15-07

NUS CORPORATION
999 WEST VALLEY ROAD
WAYNE, PENNSYLVANIA 19087
215-687-9510

ORIGINAL
(Red)

August 30,1988
T-585-8-8-167
68-01-7346

Mr. Ben Mykijewycz
U.S. Environmental Protection Agency
841 Chestnut Streets
Philadelphia, PA 19107

Dear Mr. Mykijewycz:

Attached please find two copies of the site visit summary report for Highway Materials Plant NO. 6 prepared under TDD NO. F3-8807-15.

Please endorse below confirming that you have received the attached subject data and return the form to the above address.

Sincerely,

Garth Glenn/las

Garth Glenn
Regional Operations Manager,
FIT 3

GG/las

Attachments

Signature: Mark for Ben
Ben Mykijewycz

Date: 9/6/88

8807-15-06

ORIGINAL
(Red)

R-585-8-8-52
SITE VISIT SUMMARY REPORT
FOR
HIGHWAY MATERIALS PLANT NO. 6
PREPARED UNDER

TDD NO. F3-8807-15
EPA NO. PA-1250
CONTRACT NO. 68-01-7346

FOR THE

HAZARDOUS SITE CONTROL DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

AUGUST 30, 1988

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY	REVIEWED BY	APPROVED BY
Richard J Pomeroy	Paul Dietrich	Thomas W Fromm
RICHARD POMEROY	PAUL DIETRICH	THOMAS FROMM
GEOLOGIST	ENVIRONMENTAL SCIENTIST	ASSISTANT MANAGER

ORIGINAL
(Red)

1.0 FIELD TRIP REPORT

1.1 Summary

On Thursday, August 11, 1988, Richard Pomeroy, Paul Dietrich, Steven Donohue, Janis Hottinger, Kevin Coston, and Susan Keller visited the Highway Materials Plant No. 6 and General Crushed Stone Company facility located in Downingtown, Pennsylvania. FIT 3 was accompanied by Jon Reedy, assistant safety director for General Crushed Stone Company, and Tony Demassi, operations manager for General Crushed Stone Company. The FIT also met with William Smith, the safety director for Highway Materials, Incorporated. Permission for access and permission to take photographs were granted by Mr. Reedy. While the FIT was on site, the weather was hot and very humid with hazy skies. Temperatures ranged from 90°F to 95°F.

Seven aqueous, three sediment, and four solid samples were obtained on site. Two off-site home well samples were obtained.

Deviations from the Sampling Plan

- There were no deviations from the approved sampling plan.

1.2 Persons Contacted

1.2.1 Prior to Field Trip

Jon Reedy
Assistant Safety Director
General Crushed Stone Company
P.O. Box 231
Easton, PA 18042
(215) 253-4271

Paul Racette
Site Investigation Officer
U.S. EPA
841 Chestnut Building
Ninth and Chestnut Streets
Philadelphia, PA 19107
(215) 597-1073

Gary Molder
Pennsylvania Department of
Environmental Resources
Project Area Officer
625 Cherry Street
Reading, PA 19602
(215) 378-4175

ORIGINAL
(Red)

1.2.2 At the Site

Jon Reedy
Assistant Safety Director
General Crushed Stone Company
P.O. Box 231
Easton, PA 8042
(215) 253-4271

Tony Demassi
Operations Manager
General Crushed Stone Company
P.O. Box 231
Easton, PA 198042
(215) 459-2492

William Smith
Safety Director
Highway Materials, Incorporated
Morehall Road
Malvern, PA 19355
(215) 647-5902

ORIGINAL
(Red)

1.3 Site Observations

- The HNU background reading was 0.4 ppm; no reading above background were recorded.
- The radiation mini-alert was set on the X1 position. No readings above background were recorded.
- A spring was observed in the southern end of the west quarry wall, located 75 feet up the wall from the base of the quarry. It was feeding into the quarry sump pond.
- Lagoon no. 1 was covered with green algal scum. The water was slightly clouded with gray sediment.
- An NPDES pipe discharged from lagoon no. 3 to Valley Creek.
- Valley Creek was clear and odorless. Several species of fish were observed in Valley Creek.
- No drainage from the site to Valley Creek was observed, except via the NPDES discharge pipe.
- Vehicular traffic to the site was restricted by gates.
- The site perimeter was not restricted by a fence.
- Large berms of native soil surrounded most of the site, restricting visual and sound impact, as well as drainage.
- A large portion of the site was confined basin because of the quarry.

ORIGINAL
(Red)

ATTACHMENT 1