IL-0219-14

ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663 9415

International Specialists in the Environmental Sciences

EPA Region 5 Records Ctr.

357885

Date Received for Review: 5/22/85 Date Review Completed: 5/23/85

To: Kevin Phillips

From: Cynthia Bachunas / ARIENE PRATL

Subject: SAND PARK (AKA Lakes Park) R05-8303-016

Sample Description: CASE # 4129 low water organics

Project Data Status: Complete

FIT Data Review Findings:

see attached CRL review

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/16/85

SUBJECT: Review of Region V CLP Data
Received for Review on 5-3-85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory

TO: Data User: FIT

RECEIVED MAY 22 1985

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

SITE NAME: Sand Park SMO Case No. 4129

EPA Data Set No. SF2238 No. of Samples: 8 D.U./Activity Numbers 1905 / C48500

CRL No. 85FP03582 to 85FP03R12

SMO Traffic No. EB939 to ED104

CLP Laboratory: Cal Hrs. Required for Review: 15

Following are our findings.

1. VOA SAMPLE HOLDING TIMES EXCEEDED BY 2-3 DAYS, POSITIVE VALUES CONSIDERED APPROXIMATE.
2. PEST./PCB STANDARD SUMMARY INDICATED UNSTABLE GC CONDITIONS MAY BE PRESENT. SAMPLE ED104 SHOULD BE RE-ANALIZED.
3. INITIAL AND CONTINUING CALIBRATION OUT OF SPEC. RELATED DATA FLAGGED AS ESTIMATED VALUES ONLY.

CHLORO METHANE $\overline{RF}$ = .09 AND BROMOFORM $\overline{RF}$ = .155 THESE VOA SPCC COMPOUNDS DO NOT MEET MINIMUM $\overline{RF}$ CRITERIA OF 0.300. VINYL CHLORIDE %D IN CONTINUING CALIBRATION IS GREATER THAT THE CCC LIMIT OF 25%

ABN CCC COMPOUNDS, PHENOL AND DI-N-OCTYL PHTHALATE, HAVE %RSD GREATER THAN 30% IN THE INITIAL CALIBRATIONS.

Patrick J. Chmielko
5-15-85

( ) 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

EPA FORM 1320-6 (REV 3-76)

DATA QUALIFIERS

Contractor: CAL

Case CASE 4129

Below is a summary of the out of control audits and the possible effect on the data for this case:

SAMPLE HOLDING TIMES FOR VOA ANALYSIS WERE EXCEEDED BY 2-3 DAYS. ANY POSITIVE HITS WILL BE CONSIDERED APPROXIMATE VALUES.

THE VOA BLANKS CONTAINED RELATIVELY HIGH AMOUNTS OF ACETONE BUT ALL BLANKS WERE OTHERWISE ACCEPTABLE.

CONCERNING THE PEST./PCB STANDARD SUMMARY ON 9-23-85, TIME 8:51, THE LARGE % DIFFERENCE IN RESPONSE FACTORS INDICATES THAT SAMPLE ED104 SHOULD HAVE BEEN REANALIZED. REANALYSIS IN NOT PRESENT.

INITIAL AND CONTINUING CALIBRATION HAS BEEN ~~AN~~ A PROBLEM FOR CAL FOR SOME TIME. A NUMBER OF SPCC AND CCC COMPOUNDS WERE OUT OF SPEC. ALONG WITH NUMEROUS HSL COMPOUNDS (SEE ATTACHED LIST) ALL RELATED DATA WILL BE FLAGGED AS ESTIMATED.

Reviewed by: Patrick J. Chuilli

Phone: 353-2720

Date: 5-14-85

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CASE 4129

INITIAL CALIBRATION OUTLIERS

COMPOUND NAME	VOA 2-5-85	ABN 4-8-85	ABN 4-30-85
CHLOROMETHANE	$\overline{RF}$ = .09		
BROMOFORM	$\overline{RF}$ = .155		
VINYL CHLORIDE	%D = 33.7		
ACETONE	%D = 45.8		
2-BUTANONE	%D = 38.8		
BROMODICHLOROMETHANE	$\overline{RF}$ = .029		
2-CHLOROETHYL VINYL ETHER	$\overline{RF}$ = .027		
BENZIDINE		$\overline{RF}$ = 0.0	$\overline{RF}$ = 0.0
PHENOL		%RSD = 37.3	~~%RSD = 37.3~~
DI-N-OCTYL PHTHALATE			%RSD = 49.2
BENZO(A)PYRENE			%RSD = 31.8
N-NITROSODIMETHYL AMINE		$\overline{RF}$ = 0.0	$\overline{RF}$ = 0.0
BIS(2-CHLOROETHYL)ETHER		%RSD = 52.7	
4-CHLOROANILINE		%RSD = 54.5	%RSD = 85.9
3-NITROANILINE		%RSD = 82.4	%RSD = 43.7
4-NITROANILINE		%RSD = 57.3	
BIS(2-ETHYLHEXYL)PHTHALATE		%RSD = 36.3	
3,3-DICHLOROBENZIDINE			$\overline{RF}$ = 0.0
ANILINE			%RSD = 61.8
1,3-DICHLOROBENZENE			%RSD = 30.5
NAPHTHALENE			%RSD = 30.7
2,4-DINITROTOLUENE			%RSD = 31.1
BENZO(A)ANTHRACENE			%RSD = 35.7

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CASE 4129

INITIAL CALIBRATION OUTLIERS CONTINUED

COMPOUND NAME	ABN 4-8-85	ABN 4-30-85
BENZO (b OR k) FLUORANTHENE		%RSD = 37.0
DIBENZO(A, H) ANTHRACENE		%RSD = 32.4
BENZO (GHI) PERYLENE		%RSD = 33.3

CASE 4129

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VOA CONTINUING CALIBRATION OUTLIERS

COMPOUND NAME	2-5-85 TIME 18:40	4-10-85 TIME 9:24	4-10-85 TIME 18:51
CHLOROMETHANE	RF = .154		RF = .07
BROMOFORM	%D = 70.2 RF = .138	%D = 342.4 RF = .134	RF = .144
VINYL CHLORIDE	%D = 48.3 RF = .05	%D = 141.6 RF = .032	%D = 41.0 RF = .036
VINYL ACETATE		%D = -43.1	%D = -35.0 RF = .037
2-BUTANONE	%D = 39.0 RF = .034	RF = .028	%D = -50.6 RF = .029
BROMODICHLOROMETHANE	RF = .023	RF = .009	RF = .01
2-CHLOROETHYL VINYL ETHER		%D = -69.8	%D = -64.3
ACETONE			%D = -25.6
CARBON DISULFIDE		%D = -53.6	%D = -29.9
1,1,2,2-TETRACHLOROETHANE	%D = 31.9	%D = -32.7	
2-HEXANONE		%D = -44.3	%D = -26.2
STYRENE		%D = -35.8 RF = .026	%D = -35.3
1,1,1-TRICHLOROETHANE		%D = -66.0	
1,1-DICHLOROETHANE		%D = -27.5	
4-METHYL-2-PENTANONE		%D = -32.9	

CASE 4129

RECEIVED MAY 2 2 1985

ABN CONTINUING CALIBRATION OUTLIERS

COMPOUND NAME	4-26-85 TIME 19:21	4-29-85 TIME 7:38	4-29-85 TIME 18:24	4-30-85 TIME 11:39
BENZIDINE	RF = 0.0	RF = 0.0	RF = 0.0	RF = 0.0
HEXACHLOROCYCLOPENTADIENE	%D = -84.1	%D = -46.9	%D = -50.4	
4-NITROPHENOL	%D = 66.4			
FLUORANTHENE	%D = 27.3		%D = 31.5	
DI-N-OCTYL PHTHALATE	%D = 41.9	%D = 105.4	%D = 101.7	
BENZO(A)PYRENE	%D = 38.3		%D = 28.2	%D = 25.3
N-NITROSO DIMETHYL AMINE	RF = 0.0	RF = 0.0		RF = 0.0
3,3-DICHLOROBENZIDINE	RF = 0.0	RF = 0.0	RF = 0.0	RF = 0.0
HEXACHLOROETHANE	%D = -54.5			
BENZYL ALCOHOL	%D = 29.9			
NITRO BENZENE	%D = 61.6	%D = 63.1	%D = 56.4	
ISOPHORONE	%D = 58.4	%D = 50.2	%D = 74.0	
2,4-DIMETHYL PHENOL	%D = 25.4			
BIS(2-CHLOROETHOXY)METHANE	%D = 31.0		%D = 27.6	
BENZOIC ACID	%D = -58.5			
2,4-DINITROTOLUENE	%D = 57.1		%D = 39.5	
3-NITROANILINE	%D = 39.4	%D = -31.4	%D = -43.2	
DI-N-BUTYL PHTHALATE	%D = 28.6	%D = 77.9	%D = 43.4	
BENZO(b OR K)FLUORANTHENE	%D = 29.2	%D = 31.6	%D = 27.7	%D = 28.9
ANILINE		%D = -53.1	%D = -31.5	
4-CHLOROANILINE		%D = -40.8	%D = -30.9	
2,4-DINITROPHENOL		%D = -33.8		
4-NITROANILINE		%D = -45.5		
PYRENE		%D = 37.5		
BUTYL BENZYL PHTHALATE		%D = 50.6	%D = 37.8	
~~BIS(2-ETHYLHEXYL)PHTHALATE~~		~~%D = 64.2~~		

CASE 4129

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ABN CONTINUING CALIBRATION OUTLIERS

COMPOUND NAME	4-26-85 TIME 19:21	4-29-85 TIME 7:38	4-29-85 TIME 18:24	4-30-85 TIME 11:39
BIS(2-ETHYL HEXYL) PHTHALATE		%D = 69.2	%D = 38.5	
BENZO(GHI) PERYLENE				%D = 30.5

California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

May 1, 1985

RECEIVED MAY 2 2 1985

Dr. Fred Haeberer
U.S. EPA
Hazardous Waste Investigation
401 M Street, SW
Washington, DC 20460

SF2238

Dear Dr. Fred Haeberer:

Enclosed are data summary sheets and documentation for samples and QA/QC comprising Case 4129 of Contract 68-01-6958. These samples were received 4/ 2/85 and logged in under the following CAL Lab numbers:

RECEIVED
MAY 03 1985
U.S. EPA. CENTRAL REGIONAL LAB.
536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

CAL Lab Number	Sample I.D
L728	EB939
L729	EB940
L730	EB941
L731	EB942
L732	ED101
L733	ED102
L734	ED103
L735	ED104

The samples were analyzed as low concentration water samples. The QA/QC data is satisfactory.

The following comments pertain to the initial and on-going calibration curves for volatiles and acid/base neutrals. The initial 5--point curve for volatile organics was reduced to a 4--point curve because the high-level standard saturated our systems. This is allowed by the contract. Two of the SPCC compounds are also outside the contract windows on both the initial curve and the on-going calibration curve; bromoform and methyl chloride. The bromoform has been a continual problem for us since the contract switched to the aromatic internal standards for quantitation. We have checked purge rates, temperatures, and replaced the traps, yet the Rf continually runs about 0.20. We have informed the program of this problem, and it is our understanding that the SPCC value is going to be lowered. The difficulties with methyl chloride and vinyl chloride result from highly variable standards which we obtain from Supelco (our sole source for the gas standards). Over 50% of the standards have had incorrect levels of both methyl chloride and vinyl chloride while bromomethane and chloroethane stay quite constant. We are working on this problem with Supelco but until it is resolved the Rf's for these two compounds will be erratic. We have documented that the correct Rf is about 1.2--1.5 for both compounds, and when we have samples that show positive responses for either compound, they are re-run with an accurate standard.

RECEIVED MAY 2 2 1985

In the case of the acid/base neutrals, we have been unable to see benzidine in any of our standards except for the first day they are prepared. This is caused by two problems. First, the method itself is inappropriate for benzidine, as documented in EPA Method 605. Also, it degrades in the standards when combined with the other compounds. These two facts make it impossible to use on either the initial or continuing calibration curve. We also have difficulty with the di-n-octyl phthalate response factor being quite variable. We suspect the difficulty is with the injection port, and that the problem could be solved with an on-column injector. When this is the only CCC value out, we do not re-run the curve since many times the Rf has dropped out of the 25% window in less than 24 hours, then it often falls back in the next day.

These problems have all been discussed in detail with EMSL-LV and at the EPA caucus in Atlanta, and we know that several labs share these difficulties. We firmly believe that the quality of our data is not in question even though we are technically out of contractual compliance concerning the above discussed items. If you have any questions, please give us a call.

Sincerely,

Paul G. Taylor for

Michael J. Mille, PhD
Director of GC/MS Services

Karin S. Yee

Karin S. Yee
Data Specialist

WATER SURROGATE PERCENT RECOVERY SUMMARY

CASE NO.:4129 CONTRACT LABORATORY: CALIFORNIA ANALYTICAL LABS CONTRACT NO.: 68--01-6958 DATA PREP/RELEASE BY: [illegible] / [illegible]

SMO TRAFFIC NO.	VOLATILE: TOLUENE D8 (86-119)	VOLATILE: BFB (85-121)	VOLATILE: 1,2 DICHLORO ETHANE D4 (77-120)	SEMI-VOLATILE: NITRO-BENZENE D5 (41-120)	SEMI-VOLATILE: 2-FLUORO BIPHENYL (44-119)	SEMI-VOLATILE: TERPHENYL D14 (33-128)	SEMI-VOLATILE: PHENOL-D5 (15-103)	SEMI-VOLATILE: 2-FLUORO-PHENOL (23-121)	SEMI-VOLATILE: 2,4,6 TRIBROMO-PHENOL (10-130)	PESTICIDE: DIBUTYL-CHLORENDATE (48-136)**
EB 939	98	100	84	52	60	62	25	46	63	62
EB 940	102	96	98	56	48	62	29	48	61	64
EB 941	102	104	90	64	68	72	29	45	73	75
EB 942	102	104	84	88	94	120	47	77	104	61
ED 101	102	102	88	66	84	88	43	68	88	69
ED 102	102	98	104	48	42*	58	31	48	67	99
ED 103	110	104	104	48	54	50	30	44	63	110
ED 104	108	102	100	48	54	56	28	47	61	110
EB 941 MS	102	86	78	76	90	96	46	66	90	93
EB 941 MSD	98	102	88	74	92	118	42	57	100	74
VBK30410B	100	100	90	NR	NR	NR	NR	NR	NR	NR
VBK30411	116	106	104	NR	NR	NR	NR	NR	NR	NR
L728MB	NR	NR	NR	58	62	76	29	56	66	99

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

VOLATILES: 0 OUT OF 12 : OUTSIDE OF QC LIMITS
SEMI-VOLATILES: 1 OUT OF 11 : OUTSIDE OF QC LIMITS
PESTICIDES: 0 OUT OF 11 : OUTSIDE OF QC LIMITS

COMMENTS: 42 is 2% below surrogate

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WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 4129 Contractor CAL Contract No. 68-01-6958 PGI DB

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. EB 941	1,1-Dichloroethene	50	ND	45	90	46	92	2.2	14	61-145
	Trichloroethene	50	ND	47	94	48	96	2.1	14	71-120
	Chlorobenzene	50	ND	53	106	50	100	5.8	13	75-130
	Toluene	50	ND	52	104	48	96	8.0	13	76-125
	Benzene	50	ND	53	106	54	108	1.9	11	76-127
B/N SMO SAMPLE NO. EB 941	1,2,4-Trichlorobenzene	50	ND	34	68	34	68	0	28	39-98
	Acenaphthene	50	ND	50	100	46	92	8.3	31	46-118
	2,4 Dinitrotoluene	50	ND	42	84	46	92	9.1	38	24-96
	Di-n-Butylphthalate	50	2.2	28	52	34	64	21	40	11-117
	Pyrene	50	ND	18.4	37	16.4	33	11	31	26-127
	N-Nitroso-Di-n-Propylamine	50	ND	66	132*	62	124*	6.3	38	41-116 ← replicated PGI
	1,4-Dichlorobenzene	50	ND	42	84	44	88	4.7	28	36-97
ACID SMO SAMPLE NO. EB 941	Pentachlorophenol	100	ND	50	50	56	56	11	50	9-103
	Phenol	100	ND	42	42	36	36	15	42	12-89
	2-Chlorophenol	100	ND	106	106	106	106	0	40	27-123
	4-Chloro-3-Methylphenol	100	ND	76	76	80	80	5.1	42	23-97
	4-Nitrophenol	100	ND	46	46	66	66	36	50	10-80
PEST SMO SAMPLE NO. EB 941	Lindane	0.2	ND	0.22	110	0.23	115	4.4	15	56-123
	Heptachlor	0.2	ND	0.19	95	0.17	85	11	20	40-131
	Aldrin	0.2	ND	0.17	85	0.15	75	13	22	40-120
	Dieldrin	0.5	ND	0.48	96	0.42	84	13	18	52-126
	Endrin	0.5	ND	0.60	120	0.54	108	11	21	56-121
	4,4'-DDT	0.5	ND	0.37	74	0.31	62	18	27	38-127

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5; outside QC limits
B/N 0 out of 7; outside QC limits
ACID 0 out of 5; outside QC limits
PEST 0 out of 6; outside QC limits

RECOVERY: VOAs 0 out of 10; outside QC limits
B/N 2 out of 14; outside QC limits BUT replicated PGI
ACID 0 out of 10; outside QC limits
PEST 0 out of 12; outside QC limits

Comments: high recovery was reproducible.

FORM III 5/84

REAGENT BLANK SUMMARY

Case No. 4129 Contractor CAL Contract No. 68-01-6958 DB

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
VBK30411	4/11/85	VOA	WATER	LOW	3	75-09-2	methylene chloride	2.7	ug/L	5
						67-64-1	acetone	15	ug/L	10
						78-93-3	2-butanone	11	ug/L	10
VBK30410B	4/10/85	VOA	WATER	LOW	3	75-09.2	methylene chloride	2.1	ug/L	5
						67-64-1	acetone	13	ug/L	10
						78-93-3	2-butanone	4.0	ug/L	10
L728 MB	4/26/85	ABN	WATER	LOW	F4	117-81-7	BIS(2-ETHYLHEXYL) PHTHALATE	6.8	ug/L	10
L728 MB	4/23/85	PEST	WATER	LOW	GC#6	—	no compounds found	—	—	—

RECEIVED MAY 22 1985

Comments:

FORM IV

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490
form 1 page 1

DATA PREP/RELEASE BY: DB / FAI

SAMPLE NO: VOA BLANK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: VBK30410B
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 J	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	13	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U	CL18	100-42-5	styrene	5 U
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490
form 1 page 1

DATA PREP/RELEASE BY: DB / FKB

SAMPLE NO: VOA BLANK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: VBK30411
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 J	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	15	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	11	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U	CL18	100-42-5	styrene	5 U
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes 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 for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: Lym / PAT

SAMPLE NO: METHOD BLANK

RECEIVED MAY 22 1985

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728MB
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/26/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U	58A	100-02-7	4-nitrophenol	50 U
13B	111-44-4	bis(2-chloroethyl)ether	10 U	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
25B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U
42B	39633-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U
37A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U
CL7	106-47-8	4-chloroaniline	10 U	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	10 J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U
53B	77-47-4	hexachlorocyclopentadiene	10 U	74B	205-99-2	benzo(b)fluoranthene(2)	10 U
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)arthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: DB / PAS

SAMPLE NO: METHOD BLANK

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728MB

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. METHOD

QC REPORT NO. 63 LAB SAMPLE NO. L728MBAB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
	NO A/BN				

no volatile compound found.

RECEIVED MAY 2 2 1985

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form 1 page 1

85FP03582

DATA PREP/RELEASE BY: DB / P01

SAMPLE NO: EB 939

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
38V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 UJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

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DATA REPORTING QUALIFIERS

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RECEIVED MAY 2 2 1985

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

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form 1 page 2

DATA PREP/RELEASE BY: DB PGJ

SAMPLE NO: EB 939

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

RECEIVED MAY 2 2 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/26/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U J	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U	58A	100-02-7	4-nitrophenol	50 U J
18B	111-44-4	bis(2-chloroethyl)ether	10 U J	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U J	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U J
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U J	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U J	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U J	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U J	68B	84-74-2	di-n-butyl phthalate	10 U J
CL1	65-85-0	benzoic acid	50 U J	39B	206-44-0	fluoranthene	10 U J
43B	111-91-1	bis(2-chloroethoxy) methane	10 U J	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	~~10 JB~~
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U J	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
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form 1 page 3

DATA PREP/RELEASE BY: TB / PJ

SAMPLE NO: EB 939

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L728

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

RECEIVED MAY 2 2 1985

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB99,

QC REPORT NO. 63 LAB SAMPLE NO. L72801AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	143-07-7	DODECANOICACID	A/BN	972	790	6.1 UG/L
2.	55622-59-8	1,3-DIOXOLANE,4-HEPTADECYL-2,2	A/BN	1612	500	21.5 UG/L
3.	131-18-0	1,2-BENZENEDICARBOXYLICACID,DI	A/BN	1626	715	8.8 UG/L
4.	142-18-7	DODECANOICACID,2,3-DIHYDROXYPR	A/BN	1643	447	6.6 UG/L
5.	131-18-0	1,2-BENZENEDICARBOXYLICACID,DI	A/BN	1727	657	7.0 UG/L
6.	54986-42-4	THIOPHENE,2-(DECYLTHIO)-	A/BN	1902	228	1.8 UG/L

	COMPOUND NAME	PROBABILITY		COMMENTS
1.	DODECANOICACID	1. A	1.	
2.	1,3-DIOXOLANE,4-HEPTADECYL-2,2	2. C	2.	
3.	1,2-BENZENEDICARBOXYLICACID,DI	3. B	3.	See Scan ~~1626~~ 1727
4.	DODECANOICACID,2,3-DIHYDROXYPR	4. C	4.	
5.	1,2-BENZENEDICARBOXYLICACID,DI	5. B	5.	See Scan 1670
6.	THIOPHENE,2-(DECYLTHIO)-	6. C	6.	

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No volatile compounds found.

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form 1 page 1

85FP03583

DATA PREP/RELEASE BY: DB PA

SAMPLE NO: EB 940

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L729
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	130 BJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

RECEIVED MAY 2 2 1985

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

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: DB / PGD

SAMPLE NO: EB 940

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L729
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/30/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U J	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U J	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U J
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	4 ~~10~~ J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	4 ~~10~~ J
53B	77-47-4	hexachlorocyclopentadiene	10 U	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U J
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U J
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
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form 1 page 3

DATA PREP/RELEASE BY: DB / PJS

SAMPLE NO: EB 940

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L729

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB940

QC REPORT NO. 63 LAB SAMPLE NO. L72901ABR2

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	143-07-7	DODECANOICACID	A/BN	1034	824	9.1 UG/L
2.	55622-59-8	1,3-DIOXOLANE,4-HEPTADECYL-2,2	A/BN	1691	451	12.3 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID	1. B	1.
2. 1,3-DIOXOLANE,4-HEPTADECYL-2,2	2. C	2.

no volatile compounds found

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form 1 page 1

85FP03584

DATA PREP/RELEASE BY: DB / PM

SAMPLE NO: EB 941

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L730
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/10/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 22 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 UJ	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	32 UJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	~~10 UB~~ 6UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

RECEIVED MAY 22 1985

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

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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Form 1 page 2

DATA PREP/RELEASE BY: DB + PA

SAMPLE NO: EB 941

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L730
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

RECEIVED MAY 2 2 1985

FP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 UJ	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 UJ	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 UJ	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 UJ	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 UJ
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	~~10 J~~ 5 J
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 UJ	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 UJ	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	~~10 J~~ 2 J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 UJ
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 UJ
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 UJ
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 UJ
CL7	106-47-8	4-chloroaniline	10 UJ	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	48 BJ
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 UJ
53B	77-47-4	hexachlorocyclopentadiene	10 UJ	74B	205-99-2	benzo(b)fluoranthene(2)	10 UJ
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 UJ
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 UJ				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
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Form 1 page 3

DATA PREP/RELEASE BY: DB / PGA

SAMPLE NO: EB 941

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L730

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

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VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB941,

QC REPORT NO. 63 LAB SAMPLE NO. L73001AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	730	918	39.2 UG/L
2.	629-59-4	TETRADECANE	A/BN	836	886	13.7 UG/L
3.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1561	631	8.9 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2.	TETRADECANE	2. A	2.
3.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	3. ~~C~~ B	3.

no volatile compounds found

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85FP03S85

DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: EB 942

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L731
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	~~5 J~~ 3 J
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	~~5 J~~ 4 J
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

RECEIVED MAY 22 1985

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes 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 for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: EB 942

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L731
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

RECEIVED MAY 2 2 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U J	59A	51-28-5	2,4-dinitrophenol	50 U J
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U J	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	3J ~~10 J~~	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U J
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	~~10 J~~ 2J
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U J	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U J	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U J
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U J
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	10 ~~JB~~ UJ
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U J	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: EB 942

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L731

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. EB942,

QC REPORT NO. 63 LAB SAMPLE NO. L73101AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	496-11-7	1H-INDENE, 2, 3-DIHYDRO-	A/BN	488	862	12.1 UG/L
2.	629-59-4	TETRADECANE	A/BN	836	887	13.5 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 1H-INDENE, 2, 3-DIHYDRO-	1. B	1. Or related compound
2. TETRADECANE	2. A	2.

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no volatile compounds found

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form 1 page 1

85FP03586

DATA PREP/RELEASE BY: bjm / FAJ

SAMPLE NO: ED 101

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L732
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/10/85
DATE ANALYZED: 4/10/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

RECEIVED MAY 2 2 19

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

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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Form 1 page 2

DATA PREP/RELEASE BY: DB PAJ

SAMPLE NO: ED 101

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L732
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

RECEIVED MAY 2 2 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U J	59A	51-28-5	2,4-dinitrophenol	50 U J
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U J	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U J
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	~~10 J~~ 3 J
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U J	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U J	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	~~10 J~~ 2 J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U J
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U J
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	74 B J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U J	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
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form 1 page 3

DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: ED 101

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L732

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED101,

QC REPORT NO. 63 LAB SAMPLE NO. L73201AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	108-94-1	CYCLOHEXANONE	A/BN	302	918	13.4 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	726	950	62.0 UG/L
3.	629-59-4	TETRADECANE	A/BN	831	884	12.0 UG/L
4.	544-76-3	HEXADECANE	A/BN	983	694	8.4 UG/L
5.	112-52-7	DODECANE, 1-CHLORO-	A/BN	1171	776	7.6 UG/L
6.	629-73-2	1-HEXADECENE	A/BN	1278	696	72.1 UG/L
7.	2425-54-9	TETRADECANE, 1-CHLORO-	A/BN	1292	683	8.6 UG/L
8.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1422	808	20.0 UG/L
9.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1555	703	35.4 UG/L
10.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1684	579	36.3 UG/L
11.	630-07-9	PENTATRIACONTANE	A/BN	1772	541	10.6 UG/L
12.	2136-71-2	ETHANOL, 2-(HEXADECYLOXY)-	A/BN	1874	419	19.6 UG/L

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	COMPOUND NAME	PROBABILITY	COMMENTS
1.	CYCLOHEXANONE	1. A	1.
2.	2H-AZEPIN-2-ONE, HEXAHYDRO-	2. A	2.
3.	TETRADECANE	3. A	3.
4.	HEXADECANE	4. B	4. Alkane
5.	DODECANE, 1-CHLORO-	5. B	5. Chlorinated Alkane
6.	1-HEXADECENE	6. B	6.
7.	TETRADECANE, 1-CHLORO-	7. B	7.
8.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	8. B	8. Or related compound
9.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	9. B	9. " " "
10.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	10. C	10.
11.	PENTATRIACONTANE	11 B	11. Alkane
12.	ETHANOL, 2-(HEXADECYLOXY)-	12. C	12.

No volatile compounds found.

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85FP03587

DATA PREP/RELEASE BY: DB / PAJ

SAMPLE NO: ED 102

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L733
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

RECEIVED MAY 2 2 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
83V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

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

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: DB, PAJ

SAMPLE NO: ED 102

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L733
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/30/85
CONC/DIL FACTOR: 1L/2ML

2 2 1985

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U J	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U	64A	87-86-5	pentachlorophenol	~~50 U~~ 14 J
54B	78-59-1	isophorone	10 U	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U
43B	111-91-1	bis(2-chloroethoxy) methane	10 U	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U
55B	91-20-3	naphthalene	10 U J	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U J
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	46 ~~U~~ J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
27A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U J
77B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U J
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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form 1 page 3

DATA PREP/RELEASE BY: DB, PAJ

SAMPLE NO: ED 102

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L733

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED102,

QC REPORT NO. 63 LAB SAMPLE NO. L73301ABR

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	787	947	57.4 UG/L
2.	87-86-5	PHENOL, PENTACHLORO-	A/BN	1177	816	11.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2. PHENOL, PENTACHLORO-	2. A	2. See, OC

no volatile compounds found

RECEIVED MAY 2 2 1986

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form 1 page 1

85FP03D85

DATA PREP/RELEASE BY: DB / PRJ

SAMPLE NO: ED 103

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L734
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 U J	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 U J	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	10 U J	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 U J	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 U J
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 U J
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 U J
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 U J	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 U J	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 U J	CL18	100-42-5	styrene	5 U J
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

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

RECEIVED MAY 2 2 1985

U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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form 1 page 2

DATA PREP/RELEASE BY: JB / PAJ

SAMPLE NO: ED 103

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L734
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

RECEIVED MAY 22 1985

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 U J	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 U J	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 U J	58A	100-02-7	4-nitrophenol	50 U
18B	111-44-4	bis(2-chloroethyl)ether	10 U J	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 U J
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 U J
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 U J	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 U J	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 U J
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 U J
43B	111-91-1	bis(2-chloroethoxy) methane	10 U J	5B	92-87-5	benzidine	100 U J
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
8B	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 U J
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 U J
CL7	106-47-8	4-chloroaniline	10 U J	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	20 U J
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 U J
53B	77-47-4	hexachlorocyclopentadiene	10 U J	74B	205-99-2	benzo(b)fluoranthene(2)	10 U J
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 U J
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 U J
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 U J				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

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Form 1 page 3

DATA PREP/RELEASE BY: DB, PAS

SAMPLE NO: ED 103

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L734

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

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PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED103,

QC REPORT NO. 63 LAB SAMPLE NO. L73401AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	143-07-7	DODECANOICACID	A/BN	968	796	8.5 UG/L
2.	55622-59-8	1,3-DIOXOLANE,4-HEPTADECYL-2,2	A/BN	1608	526	26.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID	1. B	1.
2. 1,3-DIOXOLANE,4-HEPTADECYL-2,2	2. C	2.

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no volatile compounds found

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85FP03R12

DATA PREP/RELEASE BY: DB, PHT

SAMPLE NO: ED 104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L735
CONTRACT NO: 68-01-6958

CASE: 40129
QC REPORT: 63
PERCENT MOISTURE: NR

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water
pH: NR

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

VOLATILES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/11/85
DATE ANALYZED: 4/11/85
CONC/DIL FACTOR: 1
PERCENT MOISTURE(DECANTED): NR

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PP#	CAS#		ug/L	PP#	CAS#		ug/L
45V	74-87-3	chloromethane	10 UJ	15V	79-34-5	1,1,2,2-tetrachloroethane	5 U
46V	74-83-9	bromomethane	10 U	32V	78-87-5	1,2-dichloropropane	5 U
88V	75-01-4	vinyl chloride	10 UJ	33V	10061-02-6	trans-1,3-dichloropropene	5 U
16V	75-00-3	chloroethane	10 U	87V	79-01-6	trichloroethene	5 U
44V	75-09-2	methylene chloride	5 U	51V	124-48-1	dibromochloromethane	5 U
CL13	67-64-1	acetone	1200 BJ	14V	79-00-5	1,1,2-trichloroethane	5 U
CL15	75-15-0	carbon disulfide	5 UJ	4V	71-43-2	benzene	5 U
29V	75-35-4	1,1-dichloroethene	5 U	33V	10061-01-5	cis-1,3-dichloropropene	5 U
13V	75-34-3	1,1-dichloroethane	5 U	19V	110-75-8	2-chloroethylvinyl ether	10 UJ
30V	156-60-5	trans-1,2-dichloroethene	5 U	47V	75-25-2	bromoform	5 UJ
23V	67-66-3	chloroform	5 U	CL16	591-78-6	2-hexanone	10 UJ
10V	107-06-2	1,2-dichloroethane	5 U	CL17	108-10-1	4-methyl-2-pentanone	10 U
CL14	78-93-3	2-butanone	10 UJ	85V	127-18-4	tetrachloroethene	5 U
11V	71-55-6	1,1,1-trichloroethane	5 U	86V	108-88-3	toluene	5 U
6V	56-23-5	carbon tetrachloride	5 U	7V	108-90-7	chlorobenzene	5 U
CL19	108-05-4	vinyl acetate	10 UJ	38V	100-41-4	ethylbenzene	5 U
48V	75-27-4	bromodichloromethane	5 UJ	CL18	100-42-5	styrene	5 UJ
				CL20		total xylenes	5 U

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

DATA REPORTING QUALIFIERS

For reporting results to EPA, the following contract specific qualifiers are to be used. The four qualifiers defined below are not subject to modification by the laboratory. Additional flags or footnotes explaining results are encouraged. However, the definition of such flags or footnotes must be explicit.

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

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U - Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J- Indicates an estimated value. This flag is used either when estimating a concentration for tentively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

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

B- This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other- Other specific flags and footnotes may be required to properly define the results. If used, they must be fully descibed in a page attached to the data summary report.

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Form 1 page 2

DATA PREP/RELEASE BY: DB / PRJ

SAMPLE NO: ED 104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L735
CONTRACT NO: 68-01-6958

CASE: 4129
QC REPORT: 63

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->-> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <-<-

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/29/85
CONC/DIL FACTOR: 1L/2ML

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PP#	CAS#		ug/l	PP#	CAS#		ug/l
61B	62-75-9	N-nitrosodimethylamine	10 UJ	1B	83-32-9	acenaphthene	10 U
65A	108-95-2	phenol	10 UJ	59A	51-28-5	2,4-dinitrophenol	50 U
CL5	62-53-3	aniline	10 UJ	58A	100-02-7	4-nitrophenol	50 U
78B	111-44-4	bis(2-chloroethyl)ether	10 UJ	CL8	132-64-9	dibenzofuran	10 U
24A	95-57-8	2-chlorophenol	10 U	35B	121-14-2	2,4-dinitrotoluene	10 UJ
26B	541-73-1	1,3-dichlorobenzene	10 U	36B	606-20-2	2,6-dinitrotoluene	10 U
27B	106-46-7	1,4-dichlorobenzene	10 U	70B	84-66-2	diethyl phthalate	10 U
CL6	100-51-6	benzyl alcohol	10 U	40B	7005-72-3	4-chlorophenyl phenyl ether	10 U
25B	95-50-1	1,2-dichlorobenzene	10 U	80B	86-73-7	fluorene	10 U
CL2	95-48-7	2-methylphenol	10 U	CL12	100-01-6	4-nitroaniline	50 UJ
42B	39638-32-9	bis(2-chloroisopropyl) ether	10 U	60A	534-52-1	4,6-dinitro-2-methylphenol	50 U
CL3	106-44-5	4-methylphenol	10 U	62B	86-30-6	N-nitrosodiphenylamine(1)	10 U
63B	621-64-7	N-nitrosodipropylamine	10 U	41B	101-55-3	4-bromophenyl-phenylether	10 U
12B	67-72-1	hexachloroethane	10 U	9B	118-74-1	hexachlorobenzene	10 U
56B	98-95-3	nitrobenzene	10 UJ	64A	87-86-5	pentachlorophenol	50 U
54B	78-59-1	isophorone	10 UJ	81B	85-01-8	phenanthrene	10 U
57A	88-75-5	2-nitrophenol	10 U	78B	120-12-7	anthracene	10 U
34A	105-67-9	2,4-dimethylphenol	10 U	68B	84-74-2	di-n-butyl phthalate	10 UJ
CL1	65-85-0	benzoic acid	50 U	39B	206-44-0	fluoranthene	10 UJ
43B	111-91-1	bis(2-chloroethoxy) methane	10 UJ	5B	92-87-5	benzidine	100 UJ
31A	120-83-2	2,4-dichlorophenol	10 U	84B	129-00-0	pyrene	10 U
83	120-82-1	1,2,4-trichlorobenzene	10 U	67B	85-68-7	butylbenzylphthalate	10 UJ
55B	91-20-3	naphthalene	10 U	28B	91-94-1	3,3'-dichlorobenzidine	20 UJ
CL7	106-47-8	4-chloroaniline	10 UJ	72B	56-55-3	benzo(a)anthracene	10 U
52B	87-68-3	hexachlorobutadiene	10 U	66B	117-81-7	bis(2-ethylhexyl)phthalate	~~10 JB~~ 5 UJ
22A	59-50-7	4-chloro-3-methylphenol	10 U	76B	218-01-9	chrysene	10 U
CL9	91-57-6	2-methylnaphthalene	10 U	69B	117-84-0	di-n-octyl phthalate	10 UJ
53B	77-47-4	hexachlorocyclopentadiene	10 UJ	74B	205-99-2	benzo(b)fluoranthene(2)	10 UJ
21A	88-06-2	2,4,6-trichlorophenol	10 U	75B	207-08-9	benzo(k)fluoranthene(2)	10 UJ
CL4	95-95-4	2,4,5-trichlorophenol	50 U	73B	50-32-8	benzo(a)pyrene	10 UJ
20B	91-58-7	2-chloronaphthalene	10 U	83B	193-39-5	indeno(1,2,3-cd)pyrene	10 U
CL10	88-74-4	2-nitroaniline	50 U	82B	53-70-3	dibenzo(a,h)anthracene	10 U
71B	131-11-3	dimethyl phthalate	10 U	79B	191-24-2	benzo(g,h,i)perylene	10 U
77B	208-96-8	acenaphthylene	10 U				
CL11	99-09-2	3-nitroaniline	50 UJ				

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE
(2) - COMPOUNDS CO-ELUTE - ANALYSED AS A SINGLE COMPOUND
DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
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DATA PREP/RELEASE BY: DB PA

SAMPLE NO: ED 104

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
LAB SAMPLE NO: L735

CASE: 4129
QC REPORT: 63
CONTRACT NO: 68-01-6958

DATE SAMPLE REC'D: 4/2/85
SAMPLE MATRIX: water

->>->> COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ <<-<<-

PESTICIDES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 4/4/85
DATE ANALYZED: 4/23/85
CONC/DIL FACTOR: 1L/25ML

RECEIVED MAY 2 2 1985

PP#	CAS#		ug/L
102P	319-84-6	a-BHC	0.05 U
103P	319-85-7	b-BHC	0.05 U
104P	319-86-8	d-BHC	0.05 U
105P	58-89-9	g-BHC (lindane)	0.05 U
100P	76-44-8	heptachlor	0.05 U
89P	309-00-2	aldrin	0.05 U
101P	1024-57-3	heptachlor epoxide	0.05 U
95P	959-98-8	endosulfan I (A)	0.05 U
90P	60-57-1	dieldrin	0.10 U
93P	72-55-9	4,4'-DDE	0.10 U
98P	72-20-8	endrin	0.10 U
96P	33213-65-9	endosulfan II (B)	0.10 U
94P	72-54-8	4,4'-DDD	0.10 U
99P	7421-93-4	endrin aldehyde	0.10 U
97P	1031-07-8	endosulfan sulfate	0.10 U
92P	50-29-3	4,4'-DDT	0.10 U
CL21	72-43-5	methoxychlor	0.50 U
CL22	53494-70-5	endrin ketone	0.10 U
91P	57-74-9	chlordane	0.50 U
113P	8001-35-2	toxaphene	1.0 U
112P	12674-11-2	aroclor-1016	0.50 U
108P	11104-28-2	aroclor-1221	0.50 U
109P	11141-16-5	aroclor-1232	0.50 U
106P	53469-21-9	aroclor-1242	0.50 U
110P	12672-29-6	aroclor-1248	0.50 U
107P	11097-69-1	aroclor-1254	1.0 U
111P	11096-82-5	aroclor-1260	1.0 U

VI = VOLUME OF EXTRACT INJECTED (UL) = 5
VS = VOLUME OF WATER EXTRACTED (ML) = 1000 ML
WS = WEIGHT OF SAMPLE EXTRACTED (G) = NR
VT = VOLUME OF TOTAL EXTRACT (UL) = 25000 UL

DATA IS HELD FOR A MINIMUM OF 180 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4129 SAMPLE NO. ED104,

QC REPORT NO. 63 LAB SAMPLE NO. L73501AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	538-24-9	DODECANOICACID,1,2,3-PROPANETR	A/BN	1763	402	8.5 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. DODECANOICACID,1,2,3-PROPANETR	1. B	1.

no volatile compounds found

RECEIVED MAY 2 2 1985

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

Case No. 4129 Contractor CAL Contract No. 68-01-6958

Instrument ID F3 Date 4-10-85 Time 18:01

Lab ID VBK30410B Data Release Authorized By: [illegible]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	17.2
75	30.0 - 60.0% of the base peak	37.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of the base peak	7.1
173	Less than 1.0% of the base peak	Ø
174	Greater than 50.0% of the base peak	72.6
175	5.0 - 9.0% of mass 174	5.6 (7.7)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	70.9 (97.6)[1]
177	5.0 - 9.0% of mass 176	4.9 (7.0)[2]

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
	VBK30410B	4-10-85	18:01
EB941 Matrix Spike	L73003MSV	↓	19:50
EB941 Dup Spike	L73003DSV	↓	20:40
EB939	L72803V	↓	22:07
EB941	L73003V	↓	22:58
EB942	L73103V	↓	0:10
ED101	L73203V	↓	0:58

4/84

FORM V

GC/MS TUNING AND MASS CALIBRATION

Bromofluorobenzene (BFB)

Case No. 4129 Contractor CAL Contract No. 68-01-69 58

Instrument ID F3 Date 4/11/85 Time 7:57

Lab ID BFB30411 Data Release Authorized By: [illegible]

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of the base peak	17.6
75	30.0 - 60.0% of the base peak	37.8
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of the base peak	7.17
173	Less than 1.0% of the base peak	0.19
174	Greater than 50.0% of the base peak	67.7
175	5.0 - 9.0% of mass 174	5.24 (7.74)[1]
176	Greater than 95.0%, but less than 101.0% of mass 174	65.1 (96.2)[1]
177	5.0 - 9.0% of mass 176	4.62 (7.10)[2]

RECEIVED MAY 22 1985

[1] Value in parenthesis is % mass 174.
[2] Value in parenthesis is % mass 176.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
	BFB30411	4-11-85	7:57
	VBK30411	4-11-85	8:43
	V30411	4-11-85	9:24
	VBK30411A	4-11-85	10:22
ED 102	L73304V	4-11-85	EW ~~11:11~~ 13:23
ED 103	L73404V	4-11-85	14:13
ED 104	L73503V	4-11-85	14:58
EB 940	L72903V	4-11-85	15:48

4/84

FORM V

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Case No. 4129 Contractor CAL Contract No. 68-01-6958

Instrument ID F4 Date 4/26/85 Time 19:21

Lab ID L4850426A Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.0
68	less than 2.0% of mass 69	0.76 (1.63)[1]
69	mass 69 relative abundance	46.7
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	43.4
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.58
275	10.0 - 30.0% of mass 198	18.4
365	greater than 1.00% of mass 198	1.79
441	present, but less than mass 443	5.14
442	greater than 40.0% of mass 198	43.3
443	17.0 - 23.0% of mass 442	7.94 (18.3)[2]

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[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
[illegible]	L4850426A	4/26/85	19:21
[illegible]	L728MBAB	↓	20:31
[illegible]	L7280IAB	↓	21:40

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Case No. 4124 Contractor CAL Contract No. 68-01-69 58

Instrument ID F4 Date 4-29-85 Time 0738

Lab ID L4850429 Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.9
68	less than 2.0% of mass 69	0.69 (1.62)[1]
69	mass 69 relative abundance	42.4
70	less than 2.0% of mass 69	— ( )[1]
127	40.0 - 60.0% of mass 198	41.7
197	less than 1.0% of mass 198	—
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	15.8
365	greater than 1.00% of mass 198	1.56
441	present, but less than mass 443	5.19
442	greater than 40.0% of mass 198	42.05
443	17.0 - 23.0% of mass 442	7.42 (17.6)[2]

RECEIVED MAY 22 1985

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50ng LSD	L4850429	4-29-85	0738
EB940	L7290IAB	4-29-85	1000
EB941	L7300IAB	4-29-85	1114
EB941-MS	L730MSAB	4-29-85	1225
EB941-MSD	L730DSAB	4-29-85	1336
EB942	L73101AB	4-29-85	1442
ED101	L73201AB	4-29-85	1603

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Case No. 4129 Contractor CAL Contract No. 68-01-69 58

Instrument ID 14 Date 4/29/85 Time 19:37

Lab ID U4850429 Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.2
68	less than 2.0% of mass 69	0 (0)[1]
69	mass 69 relative abundance	46.5
70	less than 2.0% of mass 69	0 (0)[1]
127	40.0 - 60.0% of mass 198	41.5
197	less than 1.0% of mass 198	0
198	base peak, 100% relative abundance	100
199	5.0 - 9.0% of mass 198	6.29
275	10.0 - 30.0% of mass 198	17.1
365	greater than 1.00% of mass 198	1.23
441	present, but less than mass 443	3.84
442	greater than 40.0% of mass 198	40.1
443	17.0 - 23.0% of mass 442	8.00 (20.0)[2]

RECEIVED MAY 22 1985

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
50 ng CSTD	L4850429A	4/29/85	1824
50 ng DFTPP	U4850429	↓	19:37
ED102	L73301AB	↓	20:25
ED103	L73401AB	↓	21:38
ED104	L73501AB	↓	22:43

GC/MS TUNING AND MASS CALIBRATION
Decafluorotriphenylphosphine (DFTPP)

Case No. 4179 Contractor CAL Contract No. 68-01-69 58

Instrument ID F4 Date 4-30-85 Time 1139

Lab ID L4850430 Data Release Authorized By:

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.3
68	less than 2.0% of mass 69	Ø (Ø)[1]
69	mass 69 relative abundance	44.8
70	less than 2.0% of mass 69	Ø (Ø)[1]
127	40.0 - 60.0% of mass 198	45.9
197	less than 1.0% of mass 198	Ø
198	base peak, 100% relative abundance	100.
199	5.0 - 9.0% of mass 198	6.74
275	10.0 - 30.0% of mass 198	18.8
365	greater than 1.00% of mass 198	1.56
441	present, but less than mass 443	5.51
442	greater than 40.0% of mass 198	48.9
443	17.0 - 23.0% of mass 442	8.60 (17.6)[2]

RECEIVED MAY 22 1985

[1] Value in parenthesis is % mass 69.
[2] Value in parenthesis is % mass 442.

THIS PERFORMANCE TUNE APPLIES TO THE FOLLOWING SAMPLES, BLANKS AND STANDARDS.

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
[illegible] - 107D	L4850430	4/30/85	11:39
[illegible] - 107C	L4850430A		12:48
[illegible] - 107B	L4850430B		13:53
[illegible] - 107A	L4850430C		15:02
[illegible] - 107B	L4850430D		16:08
EB940	L72901ABR2		18:55
ED102	L73301ABR		19:59

INITIAL CALIBRATION DATA VOLATILE HSL COMPOUNDS

CASE NO. 4139 CONTRACT LAB: CAL CONTRACT NO. 68-01-6958

INSTRUMENT IDENTIFIER: F3 CALIBRATION DATE: 2/5/85

MAXIMUM %RSD FOR CCC IS 30% MINIMUM AVE RF FOR SPCC IS 0.300

LAB ID:

COMPOUND	RF20	RF50	RF100	RF150	AVE RF	%RSD	
CHLOROMETHANE	0.064	0.152	0.093	0.048	0.090	43.941	SP
BROMOMETHANE	1.566	1.780	2.562	2.371	2.070	19.775	
VINYL CHLORIDE	0.433	0.908	0.706	0.405	0.613	33.707	CC
CHLOROETHANE	1.150	1.335	1.747	1.772	1.501	17.762	
DICHLOROMETHANE	1.931	1.845	1.660	1.596	1.758	7.698	
ACETONE	0.476	0.235	0.188	0.170	0.268	45.791	
CARBON DISULFIDE	6.354	6.373	5.828	5.579	6.034	5.660	
1,1-DICHLOROETHENE	1.481	1.545	1.447	1.404	1.470	3.506	CC
1,1-DICHLOROETHANE	2.806	2.844	2.661	2.595	2.727	3.743	SP
TRANS-1,2-DICHLOROETHENE	1.609	1.668	1.544	1.447	1.567	5.229	
CHLOROFORM	2.704	2.698	2.550	2.423	2.594	4.481	CC
1,2-DICHLOROETHANE	0.226	0.189	0.215	0.180	0.203	9.183	
2-BUTANONE	0.105	0.101	0.048	0.042	0.074	38.815	
1,1,1-TRICHLOROETHANE	0.184	0.253	0.230	0.270	0.235	13.729	
CARBON TETRACHLORIDE	0.190	0.268	0.251	0.274	0.246	13.485	
VINYL ACETATE	0.043	0.048	0.061	0.065	0.055	16.358	
BROMODICHLOROMETHANE	0.020	0.032	0.031	0.031	0.029	16.692	
1,2-DICHLOROPROPANE	0.396	0.390	0.425	0.[illegible]	0.415	5.444	CC
TRANS-1,3-DICHLOROPROPENE	0.140	0.148	0.172	0.187	0.162	12.985	
TRICHLOROETHENE	0.373	0.399	0.426	0.404	0.401	4.694	
DIBROMOCHLOROMETHANE	0.180	0.184	0.229	0.238	0.208	12.447	
1,1,2-TRICHLOROETHANE	0.312	0.289	0.317	0.341	0.315	5.849	
BENZENE	1.142	1.190	1.121	1.162	1.154	2.204	
CIS-1,3-DICHLOROPROPENE	0.290	0.301	0.385	0.462	0.360	19.322	
2-CHLOROETHYLVINYL ETHER	0.029	0.021	0.027	0.029	0.027	11.922	
BROMOFORM	0.136	0.136	0.163	0.184	0.155	12.947	SP
2-HEXANONE	0.118	0.127	0.123	0.150	0.130	9.392	
4-METHYL-2-PENTANONE	0.127	0.150	0.127	0.142	0.137	7.208	
TETRACHLOROETHENE	0.341	0.398	0.319	0.333	0.348	8.619	
1,1,2,2-TETRACHLOROETHANE	0.483	0.733	0.475	0.536	0.557	18.722	SP
TOLUENE	0.884	0.955	0.768	0.793	0.850	8.745	CC
CHLOROBENZENE	1.054	1.197	0.918	0.920	1.023	11.235	SP
ETHYLBENZENE	0.490	0.571	0.465	0.473	0.500	8.410	CC
STYRENE	1.037	1.135	0.866	0.838	0.969	12.620	
XYLENE	0.600	0.666	0.571	0.545	0.596	7.560	

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OLD AND NEW AVE. RF COMPARED.

OLD RF	NEW RF
1/31/85	2/5/85
0.015	0.090
1.929	2.070
0.216	0.613
1.195	1.501
1.430	1.758
0.137	0.268
4.696	6.034
1.372	1.470
2.201	2.727
1.519	1.567
2.534	2.594
0.178	0.203
0.042	0.074
0.206	0.235
0.291	0.246
0.041	0.055
0.036	0.029
0.255	0.415
0.166	0.162
0.432	0.401
0.231	0.208
0.342	0.315
1.102	1.154
0.332	0.360
0.018	0.027
0.185	0.155
0.125	0.130
0.129	0.137
0.400	0.348
0.524	0.557
0.805	0.850
1.015	1.023
0.471	0.500
0.863	0.969
0.584	0.596

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CONTINUING CALIBRATION CHECK-VOLATILE HSL ORGANICS

CASE NO CONTRACT NO.

INSTRUMENT IDENTIFIER: F3 CALIBRATION DATE: 2/5/85

STANDARD FILE: V30205 DATE: 02/05/85 TIME: 18:40

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.300

COMPOUND	AVERF	RRF	% D	
CHLOROMETHANE	0.090	0.154	70.2	SPCC
BROMOMETHANE	2.070	1.782	-13.9	
VINYL CHLORIDE	0.613	0.910	48.3	CCC
CHLOROETHANE	1.501	1.337	-10.9	
DICHLOROMETHANE	1.758	1.847	5.0	
ACETONE	0.268	0.237	-11.8	
CARBON DISULFIDE	6.034	6.375	5.6	
1,1-DICHLOROETHENE	1.470	1.547	5.2	CCC
1,1-DICHLOROETHANE	2.727	2.846	4.3	SPCC
TRANS-1,2-DICHLOROETHENE	1.567	1.670	6.5	
CHLOROFORM	2.594	2.700	4.0	CCC
1,2-DICHLOROETHANE	0.203	0.191	-6.3	
2-BUTANONE	0.074	0.103	39.0	
1,1,1-TRICHLOROETHANE	0.235	0.255	8.2	
CARBON TETRACHLORIDE	0.246	0.270	9.5	
VINYL ACETATE	0.055	0.050	-10.5	
BROMODICHLOROMETHANE	0.029	0.034	16.1	
1,2-DICHLOROPROPANE	0.415	0.392	-5.6	CCC
TRANS-1,3-DICHLOROPROPENE	0.162	0.150	-7.8	
TRICHLOROETHENE	0.401	0.401	-0.1	
DIBROMOCHLOROMETHANE	0.208	0.186	-10.9	
1,1,2-TRICHLOROETHANE	0.315	0.291	-7.7	
BENZENE	1.154	1.192	3.2	
CIS-1,3-DICHLOROPROPENE	0.360	0.303	-15.9	
2-CHLOROETHYLVINYL ETHER	0.027	0.023	-15.7	
BROMOFORM	0.155	0.138	-11.3	SPCC
2-HEXANONE	0.130	0.129	-1.4	
4-METHYL-2-PENTANONE	0.137	0.152	10.5	
TETRACHLOROETHENE	0.348	0.400	14.7	
1,1,2,2-TETRACHLOROETHANE	0.557	0.735	31.9	SPCC
TOLUENE	0.850	0.957	12.5	CCC
CHLOROBENZENE	1.023	1.199	17.1	SPCC
ETHYLBENZENE	0.500	0.573	14.4	CCC
STYRENE	0.969	1.137	17.3	
XYLENE	0.596	0.668	11.9	

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CONTINUING CALIBRATION CHECK-VOLATILE HSL ORGANICS

CASE NO. 4129 CONTRACT NO. 68 01 6958

INSTRUMENT IDENTIFIER: F3 CALIBRATION DATE: 2/5/85

STANDARD FILE: V30410 DATE: 04/10/85 TIME: 18:51

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.300

COMPOUND	AVERF	RRF	% D	
CHLOROMETHANE	0.090	0.071	-21.3	SPCC
BROMOMETHANE	2.070	1.496	-27.7	
VINYL CHLORIDE	0.613	0.362	-41.0	CCC
CHLOROETHANE	1.501	1.161	-22.7	
DICHLOROMETHANE	1.758	1.739	-1.1	
ACETONE	0.268	0.200	-25.6	
CARBON DISULFIDE	6.034	4.224	-29.9	
1,1-DICHLOROETHENE	1.470	1.293	-12.0	CCC
1,1-DICHLOROETHANE	2.727	2.672	-2.0	SPCC
TRANS-1,2-DICHLOROETHENE	1.567	1.631	4.0	
CHLOROFORM	2.594	2.929	12.8	CCC
1,2-DICHLOROETHANE	0.203	0.228	11.8	
2-BUTANONE	0.074	0.037	-50.6	
1,1,1-TRICHLOROETHANE	0.235	0.233	-1.2	
CARBON TETRACHLORIDE	0.246	0.271	10.1	
VINYL ACETATE	0.055	0.036	-35.0	
BROMODICHLOROMETHANE	0.029	0.029	-0.2	
1,2-DICHLOROPROPANE	0.415	0.367	-11.8	CCC
TRANS-1,3-DICHLOROPROPENE	0.162	0.148	-8.6	
TRICHLOROETHENE	0.401	0.396	-1.2	
DIBROMOCHLOROMETHANE	0.208	0.206	-1.3	
1,1,2-TRICHLOROETHANE	0.315	0.305	-3.4	
BENZENE	1.154	1.045	-9.5	
CIS-1,3-DICHLOROPROPENE	0.360	0.320	-11.3	
2-CHLOROETHYLVINYL ETHER	0.027	0.010	-64.3	
BROMOFORM	0.155	0.144	-7.5	SPCC
2-HEXANONE	0.130	0.096	-26.2	
4-METHYL-2-PENTANONE	0.137	0.121	-11.8	
TETRACHLOROETHENE	0.348	0.336	-3.5	
1,1,2,2-TETRACHLOROETHANE	0.557	0.421	-24.5	SPCC
TOLUENE	0.850	0.761	-10.5	CCC
CHLOROBENZENE	1.023	0.907	-11.3	SPCC
ETHYLBENZENE	0.500	0.446	-10.8	CCC
STYRENE	0.969	0.627	-35.3	
XYLENE	0.596	0.487	-18.3	

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CONTINUING CALIBRATION CHECK-VOLATILE HSL ORGANICS

CASE NO. 4129 CONTRACT NO. 68 01 6958

INSTRUMENT IDENTIFIER: F3 CALIBRATION DATE: 2/5/85

STANDARD FILE: V30411 DATE: 04/10/85 TIME: 9:24

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.300

COMPOUND	AVERF	RRF	% D	
CHLOROMETHANE	0.090	0.399	342.4	SPCC
BROMOMETHANE	2.070	1.907	-7.8	
VINYL CHLORIDE	0.613	1.482	141.6	CCC
CHLOROETHANE	1.501	1.441	-4.0	
DICHLOROMETHANE	1.758	1.817	3.3	
ACETONE	0.268	0.125	-53.6	
CARBON DISULFIDE	6.034	4.374	-27.5	
1,1-DICHLOROETHENE	1.470	1.332	-9.4	CCC
1,1-DICHLOROETHANE	2.727	2.728	0.0	SPCC
TRANS-1,2-DICHLOROETHENE	1.567	1.728	10.2	
CHLOROFORM	2.594	2.838	9.3	CCC
1,2-DICHLOROETHANE	0.203	0.195	-3.9	
2-BUTANONE	0.074	0.026	-66.0	
1,1,1-TRICHLOROETHANE	0.235	0.251	6.4	
CARBON TETRACHLORIDE	0.246	0.269	9.3	
VINYL ACETATE	0.055	0.032	-43.1	
BROMODICHLOROMETHANE	0.029	0.028	-4.4	
1,2-DICHLOROPROPANE	0.415	0.365	-12.1	CCC
TRANS-1,3-DICHLOROPROPENE	0.162	0.148	-9.0	
TRICHLOROETHENE	0.401	0.398	-0.8	
DIBROMOCHLOROMETHANE	0.208	0.197	-5.7	
1,1,2-TRICHLOROETHANE	0.315	0.300	-5.0	
BENZENE	1.154	1.070	-7.2	
CIS-1,3-DICHLOROPROPENE	0.360	0.308	-14.5	
2-CHLOROETHYLVINYL ETHER	0.027	0.009	-69.8	
BROMOFORM	0.155	0.134	-14.0	SPCC
2-HEXANONE	0.130	0.073	-44.3	
4-METHYL-2-PENTANONE	0.137	0.092	-32.9	
TETRACHLOROETHENE	0.348	0.306	-12.2	
1,1,2,2-TETRACHLOROETHANE	0.557	0.375	-32.7	SPCC
TOLUENE	0.850	0.709	-16.6	CCC
CHLOROBENZENE	1.023	0.871	-14.8	SPCC
ETHYLBENZENE	0.500	0.425	-15.0	CCC
STYRENE	0.969	0.622	-35.8	
XYLENE	0.596	0.477	-19.9	

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INITIAL CALIBRATION DATA SEMI-VOLATILE HSL COMPOUNDS

CASE NO. 4129 CONTRACT LAB. CAL CONTRACT NO. 68-01-6958

INSTRUMENT IDENTIFIER: F4 CALIBRATION DATE: 4-8-85

MAXIMUM %RSD FOR CCC IS 30% MINIMUM AVE RF FOR SPCC IS 0.050

COMPOUND	RF20	RF50	RF80	RF120	RF160	AVE RF	%RSD	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
ANILINE	0.777	0.884	0.813	0.948	0.688	0.822	19.371	
PHENOL	1.497	1.220	1.257	0.919	0.950	1.169	37.346	CCC
BIS (2-CHLOROETHYL) ETHER	1.673	1.272	1.238	0.833	0.901	1.184	32.677	
2-CHLOROPHENOL	0.999	0.873	0.862	0.773	0.709	0.845	21.824	
1,3-DICHLOROBENZENE	1.022	0.904	0.854	0.955	0.664	0.880	21.286	
1,4-DICHLOROBENZENE	1.072	0.875	0.850	0.994	0.652	0.889	27.012	CCC
1,2-DICHLOROBENZENE	0.924	0.769	0.801	0.863	0.562	0.786	24.923	
BIS(2-CHLOROISOPROPYL)ETHER	0.323	0.285	0.292	0.246	0.195	0.269	27.338	
HEXACHLOROETHANE	0.468	0.418	0.430	0.357	0.345	0.404	21.881	
BENZYL ALCOHOL	0.542	0.506	0.510	0.440	0.429	0.486	17.290	
N-NITROSO-N-PROPYLAMINE	0.134	0.120	0.119	0.107	0.102	0.118	19.301	SPCC
2-METHYL PHENOL	0.821	0.750	0.770	0.558	0.646	0.731	16.650	
4-METHYL PHENOL	0.762	0.712	0.746	0.657	0.645	0.705	17.688	
NITROBENZENE	0.036	0.040	0.040	0.0319	0.035	0.036	14.114	
ISOPHORONE	0.850	0.847	0.774	0.577	0.743	0.767	29.381	
2-NITROPHENOL	0.206	0.226	0.207	0.218	0.222	0.216	7.855	CCC
2,4-DIMETHYLPHENOL	0.310	0.328	0.322	0.245	0.365	0.306	9.407	
BIS(2-CHLOROETHOXY)METHANE	0.641	0.590	0.612	0.450	0.563	0.572	25.680	
2,4-DICHLOROPHENOL	0.301	0.315	0.300	0.344	0.312	0.315	11.274	CCC
BENZOIC ACID	*	0.155	0.137	0.156	0.112	0.141	18.298	
1,2,4-TRICHLOROBENZENE	0.363	0.343	0.336	0.380	0.308	0.347	12.921	
NAPHTHALENE	1.150	0.974	0.900	0.964	0.752	0.948	23.964	
4-CHLOROANILINE	0.213	0.237	0.323	0.426	0.342	0.309	24.557	
HEXACHLOROBUTADIENE	0.176	0.183	0.148	0.207	0.165	0.180	17.055	CCC
4-CHLORO-3-METHYLPHENOL	0.097	0.092	0.088	0.090	0.075	0.087	9.791	CCC
2-METHYLNAPHTHALENE	0.979	0.892	0.836	0.712	0.660	0.816	26.908	
HEXACHLOROCYCLOPENTADIENE	0.280	0.322	0.317	0.393	0.393	0.341	25.993	SPCC
2,4,6-TRICHLOROPHENOL	0.371	0.366	0.373	0.423	0.367	0.380	12.394	CCC
2,4,5-TRICHLOROPHENOL	*	0.400	0.372	0.456	0.403	0.408	14.658	
2-CHLORONAPHTHALENE	1.054	1.270	1.215	1.373	1.166	1.276	11.509	
2-NITROANILINE	*	0.441	0.444	0.417	0.419	0.431	5.246	
ACENAPHTHYLENE	1.579	1.471	1.432	1.564	1.268	1.463	12.262	
DIMETHYL PHTHALATE	1.223	1.267	1.288	1.352	1.213	1.282	6.587	
2,6-DINITROTOLUENE	0.275	0.294	0.285	0.290	0.260	0.291	7.057	
ACENAPHTHENE	1.085	1.111	1.105	1.217	1.025	1.109	10.557	CCC
2,4-DINITROPHENOL	*	0.096	0.097	0.125	0.099	0.100	28.717	SPCC
DIBENZOFURAN	1.694	1.647	1.649	1.756	1.391	1.628	11.155	
2,4-DINITROTOLUENE	0.207	0.239	0.243	0.217	0.244	0.230	13.406	
4-NITROPHENOL	*	0.125	0.121	0.117	0.118	0.120	4.294	SPCC
3-NITROANILINE	*	0.055	0.153	0.246	0.234	0.173	82.443	
FLUORENE	1.175	1.191	1.213	1.451	1.100	1.228	19.511	
4-CHLOROPHENYL PHENYL ETHER	0.645	0.637	0.663	0.732	0.606	0.657	12.500	
DIETHYL PHTHALATE	1.177	1.202	1.213	1.290	1.103	1.197	8.793	
4-NITROANILINE	*	0.074	0.129	0.165	0.139	0.127	51.259	
4,6-DINITRO-2-METHYLPHENOL	*	0.118	0.115	0.141	0.138	0.128	16.680	
1,2-DIPHENYLHYDRAZINE	0.068	0.077	0.075	0.060	0.085	0.073	21.956	
N-NITROSODIPHENYLAMINE	0.245	0.227	0.250	0.260	0.279	0.252	11.810	CCC
4-BROMOPHENYL PHENYL ETHER	0.240	0.225	0.236	0.264	0.229	0.239	12.186	
HEXACHLOROBENZENE	0.265	0.231	0.243	0.286	0.246	0.255	16.647	
PENTACHLOROPHENOL	*	0.144	0.142	0.150	0.143	0.145	4.142	CCC
PHENANTHRENE	1.222	1.208	1.224	1.263	1.137	1.211	5.297	
ANTHRACENE	0.946	0.929	0.860	0.878	0.727	0.868	13.589	
DI-N-BUTYL PHTHALATE	1.367	1.332	1.306	1.201	1.180	1.278	10.950	
FLUORANTHENE	0.967	0.991	0.932	1.076	0.921	0.978	11.523	CCC
PYRENE	2.440	2.158	2.096	1.824	2.348	2.174	20.846	
BENZIDINE	*	0.000	0.000	0.000	0.000	0.000	0.000	SPCC
BUTYL BENZYL PHTHALATE	1.298	1.317	1.319	0.929	1.417	1.256	27.737	
BENZO(A)ANTHRACENE	1.318	1.492	1.520	1.232	1.358	1.384	17.351	
CHRYSENE	1.350	1.221	1.308	1.314	1.340	1.307	7.450	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
BIS(2-ETHYLHEXYL)PHTHALATE	1.417	1.388	1.440	0.876	1.448	1.314	36.265	
DI-N-OCTYL PHTHALATE	2.431	2.274	2.378	1.853	2.574	2.303	21.178	CCC
BENZO(B&/ORK)FLUORANTHENE	1.258	1.194	1.268	1.412	1.349	1.297	12.588	
BENZO(A)PYRENE	0.716	0.674	0.702	0.821	0.726	0.728	15.270	CCC
INDENO(1,2,3-C,D)PYRENE	0.840	0.775	0.920	0.964	0.902	0.881	16.594	
DIBENZO(A,H)ANTHRACENE	0.657	0.682	0.836	0.884	0.830	0.778	25.351	
BENZO(GHI)PERYLENE	0.900	0.856	0.979	1.009	0.926	0.934	13.854	

+ - NOT DETECTABLE AT 20NG

RECEIVED MAY 2 2 1985

CONTINUING CALIBRATION CHECK-SEMIVOLATILE HSL COMPOUNDS

CASE NO. 4129 CONTRACT NO. 68 01 6958

INSTRUMENT IDENTIFIER: F4 CALIBRATION DATE: 4-8-85

STANDARD FILE: L4850426A DATE: 04/26/85 TIME: 19:21

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.050

COMPOUND	AVERF	RRF	% D	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.0	
ANILINE	0.822	0.751	-8.6	
PHENOL	1.169	1.278	9.3	CCC
BIS (2-CHLOROETHYL) ETHER	1.184	1.319	11.4	
2-CHLOROPHENOL	0.845	0.854	1.0	
1,3-DICHLOROBENZENE	0.882	0.828	-6.1	
1,4-DICHLOROBENZENE	0.889	0.838	-5.7	CCC
1,2-DICHLOROBENZENE	0.786	0.757	-3.6	
BIS(2-CHLOROISOPROPYL)ETHER	0.269	0.314	16.5	
HEXACHLOROETHANE	0.404	0.264	-34.5	
BENZYL ALCOHOL	0.486	0.632	29.9	
N-NITROSO-N-PROPYLAMINE	0.118	0.134	13.6	SPCC
2-METHYL PHENOL	0.731	0.877	20.0	
4-METHYL PHENOL	0.705	0.847	20.1	
NITROBENZENE	0.226	0.366	61.6	
ISOPHORONE	0.763	1.209	58.4	
2-NITROPHENOL	0.216	0.274	26.6	CCC
2,4-DIMETHYLPHENOL	0.336	0.422	25.4	
BIS(2-CHLOROETHOXY)METHANE	0.572	0.750	31.0	
2,4-DICHLOROPHENOL	0.315	0.295	-6.4	CCC
BENZOIC ACID	0.141	0.059	-58.5	
1,2,4-TRICHLOROBENZENE	0.347	0.328	-5.6	
NAPHTHALENE	0.948	1.085	14.4	
4-CHLOROANILINE	0.309	0.354	14.3	
HEXACHLOROBUTADIENE	0.180	0.182	0.6	CCC
4-CHLORO-3-METHYLPHENOL	0.087	0.085	-2.7	CCC
2-METHYLNAPHTHALENE	0.816	0.784	-3.8	
HEXACHLOROCYCLOPENTADIENE	0.341	0.054	-84.1	SPCC
2,4,6-TRICHLOROPHENOL	0.380	0.372	-2.1	CCC
2,4,5-TRICHLOROPHENOL	0.408	0.372	-8.8	
2-CHLORONAPHTHALENE	1.276	1.298	1.8	
2-NITROANILINE	0.431	0.455	5.5	
ACENAPHTHYLENE	1.463	1.437	-1.6	
DIMETHYL PHTHALATE	1.282	1.314	2.5	
2,6-DINITROTOLUENE	0.281	0.329	17.0	
ACENAPHTHENE	1.109	1.147	3.4	CCC
2,4-DINITROPHENOL	0.100	0.087	-13.7	SPCC
DIBENZOFURAN	1.628	1.739	6.9	
2,4-DINITROTOLUENE	0.230	0.362	57.1	
4-NITROPHENOL	0.120	0.200	66.4	SPCC
3-NITROANILINE	0.173	0.242	39.4	
FLUORENE	1.228	1.493	21.5	
4-CHLOROPHENYL PHENYL ETHER	0.657	0.648	-1.3	
DIETHYL PHTHALATE	1.197	1.495	24.9	
4-NITROANILINE	0.127	0.140	9.9	
4,6-DINITRO-2-METHYLPHENOL	0.128	0.117	-9.1	
1,2-DIPHENYLHYDRAZINE	0.073	0.069	-6.1	
N-NITROSODIPHENYLAMINE	0.252	0.241	-4.4	CCC
4-BROMOPHENYL PHENYL ETHER	0.239	0.244	2.0	
HEXACHLOROBENZENE	0.255	0.260	1.8	
PENTACHLOROPHENOL	0.145	0.128	-11.8	CCC
PHENANTHRENE	1.211	1.193	-1.4	

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ANTHRACENE	0.868	0.858	-1.1	
DI-N-BUTYL PHTHALATE	1.278	1.643	28.6	
FLUORANTHENE	0.978	1.245	27.3	CCC
PYRENE	2.174	1.809	-16.7	
BENZIDINE	0.000	0.000	0.0	SPCC
BUTYL BENZYL PHTHALATE	1.256	1.418	12.9	
BENZO(A)ANTHRACENE	1.384	1.396	0.9	
CHRYSENE	1.307	1.359	4.0	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.0	
BIS(2-ETHYLHEXYL)PHTHALATE	1.314	1.502	14.3	
DI-N-OCTYL PHTHALATE	2.303	3.266	41.9	CCC
BENZO(B&/ORK)FLUORANTHENE	1.297	1.676	29.2	
BENZO(A)PYRENE	0.728	1.007	38.3	CCC
INDENO(1,2,3-C,D)PYRENE	0.881	0.993	12.7	
DIBENZO(A,H)ANTHRACENE	0.778	0.930	19.6	
BENZO(GHI)PERYLENE	0.934	0.945	1.2	

RECEIVED MAY 2 2 1985

CONTINUING CALIBRATION CHECK-SEMIVOLATILE HSL COMPOUNDS

68 01 6958

CASE NO. 4129 CONTRACT NO.
INSTRUMENT IDENTIFIER: F4 CALIBRATION DATE: 4-8-85
STANDARD FILE: L4850429 DATE: 04/29/85 TIME: 7:38

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.050

RECEIVED MAY 22 198

COMPOUND	AVERF	RRF	% D	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.0	
ANILINE	0.822	0.385	-53.1	
PHENOL	1.169	1.233	5.5	CCC
BIS (2-CHLOROETHYL) ETHER	1.184	1.239	4.7	
2-CHLOROPHENOL	0.845	0.774	-8.3	
1,3-DICHLOROBENZENE	0.882	0.815	-7.5	
1,4-DICHLOROBENZENE	0.889	0.847	-4.7	CCC
1,2-DICHLOROBENZENE	0.786	0.733	-6.6	
BIS(2-CHLOROISOPROPYL)ETHER	0.269	0.289	7.3	
HEXACHLOROETHANE	0.404	0.435	7.6	
BENZYL ALCOHOL	0.486	0.550	13.1	
N-NITROSO-N-PROPYLAMINE	0.118	0.131	10.4	SPCC
2-METHYL PHENOL	0.731	0.823	12.5	
4-METHYL PHENOL	0.705	0.825	17.0	
NITROBENZENE	0.226	0.369	63.1	
ISOPHORONE	0.763	1.146	50.2	
2-NITROPHENOL	0.216	0.262	21.2	CCC
2,4-DIMETHYLPHENOL	0.336	0.402	19.4	
BIS(2-CHLOROETHOXY)METHANE	0.572	0.707	23.5	
2,4-DICHLOROPHENOL	0.315	0.330	4.5	CCC
BENZOIC ACID	0.141	0.167	18.4	
1,2,4-TRICHLOROBENZENE	0.347	0.365	5.0	
NAPHTHALENE	0.948	1.079	13.8	
4-CHLOROANILINE	0.309	0.183	-40.8	
HEXACHLOROBUTADIENE	0.180	0.210	16.4	CCC
4-CHLORO-3-METHYLPHENOL	0.087	0.089	1.7	CCC
2-METHYLNAPHTHALENE	0.816	0.755	-7.4	
HEXACHLOROCYCLOPENTADIENE	0.341	0.181	-46.9	SPCC
2,4,6-TRICHLOROPHENOL	0.380	0.367	-3.5	CCC
2,4,5-TRICHLOROPHENOL	0.408	0.367	-10.1	
2-CHLORONAPHTHALENE	1.276	1.183	-7.2	
2-NITROANILINE	0.431	0.378	-12.4	
ACENAPHTHYLENE	1.463	1.333	-8.8	
DIMETHYL PHTHALATE	1.282	1.217	-5.0	
2,6-DINITROTOLUENE	0.281	0.301	7.0	
ACENAPHTHENE	1.109	1.055	-4.8	CCC
2,4-DINITROPHENOL	0.100	0.067	-33.8	SPCC
DIBENZOFURAN	1.628	1.546	-4.9	
2,4-DINITROTOLUENE	0.230	0.276	19.8	
4-NITROPHENOL	0.120	0.092	-23.5	SPCC
3-NITROANILINE	0.173	0.119	-31.4	
FLUORENE	1.228	1.280	4.3	
4-CHLOROPHENYL PHENYL ETHER	0.657	0.635	-3.3	
DIETHYL PHTHALATE	1.197	1.290	7.8	
4-NITROANILINE	0.127	0.070	-45.5	
4,6-DINITRO-2-METHYLPHENOL	0.128	0.117	-9.0	
1,2-DIPHENYLHYDRAZINE	0.073	0.075	1.8	
N-NITROSODIPHENYLAMINE	0.252	0.259	2.6	CCC
4-BROMOPHENYL PHENYL ETHER	0.239	0.259	8.2	
HEXACHLOROBENZENE	0.255	0.295	15.6	
PENTACHLOROPHENOL	0.145	0.141	-3.1	CCC
PHENANTHRENE	1.211	1.235	2.0	

ANTHRACENE	0.868	0.885	2.0	
DI-N-BUTYL PHTHALATE	1.278	2.273	77.9	
FLUORANTHENE	0.978	1.100	12.5	CCC
PYRENE	2.174	2.989	37.5	
BENZIDINE	0.000	0.000	0.0	SPCC
BUTYL BENZYL PHTHALATE	1.256	1.892	50.6	
BENZO(A)ANTHRACENE	1.384	1.375	-0.6	
CHRYSENE	1.307	1.293	-1.0	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.0	
BIS(2-ETHYLHEXYL)PHTHALATE	1.314	2.223	69.2	
DI-N-OCTYL PHTHALATE	2.303	4.730	105.4	CCC
BENZO(B&/ORK)FLUORANTHENE	1.297	1.706	31.6	
BENZO(A)PYRENE	0.728	0.836	14.8	CCC
INDENO(1,2,3-C,D)PYRENE	0.881	0.889	0.9	
DIBENZO(A,H)ANTHRACENE	0.778	0.666	-14.3	
BENZO(GHI)PERYLENE	0.934	1.051	12.5	

RECEIVED MAY 2 2 1985

CONTINUING CALIBRATION CHECK-SEMIVOLATILE HSL COMPOUNDS

68 01 6958

CASE NO. 4129 CONTRACT NO.

INSTRUMENT IDENTIFIER: F4 CALIBRATION DATE: 4-8-85

STANDARD FILE: L4850429A DATE: 04/29/85 TIME: 18:24

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.050

RECEIVED MAY 22 1985

COMPOUND	AVERF	RRF	%D	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.0	
ANILINE	0.822	0.562	-31.5	
PHENOL	1.169	1.289	10.3	CCC
BIS (2-CHLOROETHYL) ETHER	1.184	1.370	15.7	
2-CHLOROPHENOL	0.845	0.798	-5.5	
1,3-DICHLOROBENZENE	0.882	0.824	-6.4	
1,4-DICHLOROBENZENE	0.889	0.869	-2.1	CCC
1,2-DICHLOROBENZENE	0.786	0.792	0.7	
BIS(2-CHLOROISOPROPYL)ETHER	0.269	0.299	11.1	
HEXACHLOROETHANE	0.404	0.467	15.6	
BENZYL ALCOHOL	0.486	0.571	17.4	
N-NITROSO-N-PROPYLAMINE	0.118	0.140	18.0	SPCC
2-METHYL PHENOL	0.731	0.845	15.6	
4-METHYL PHENOL	0.705	0.810	14.9	
NITROBENZENE	0.226	0.354	56.4	
ISOPHORONE	0.763	1.327	74.0	
2-NITROPHENOL	0.216	0.257	18.8	CCC
2,4-DIMETHYLPHENOL	0.336	0.396	17.7	
BIS(2-CHLOROETHOXY)METHANE	0.572	0.730	27.6	
2,4-DICHLOROPHENOL	0.315	0.299	-5.2	CCC
BENZOIC ACID	0.141	0.169	19.6	
1,2,4-TRICHLOROBENZENE	0.347	0.343	-1.1	
NAPHTHALENE	0.948	1.101	16.1	
4-CHLOROANILINE	0.309	0.214	-30.9	
HEXACHLOROBUTADIENE	0.180	0.199	10.5	CCC
4-CHLORO-3-METHYLPHENOL	0.087	0.083	-5.4	CCC
2-METHYLNAPHTHALENE	0.816	0.804	-1.4	
HEXACHLOROCYCLOPENTADIENE	0.341	0.169	-50.4	SPCC
2,4,6-TRICHLOROPHENOL	0.380	0.355	-6.4	CCC
2,4,5-TRICHLOROPHENOL	0.408	0.342	-16.1	
2-CHLORONAPHTHALENE	1.276	1.222	-4.1	
2-NITROANILINE	0.431	0.394	-8.5	
ACENAPHTHYLENE	1.463	1.370	-6.3	
DIMETHYL PHTHALATE	1.282	1.240	-3.2	
2,6-DINITROTOLUENE	0.281	0.267	-5.1	
ACENAPHTHENE	1.109	1.091	-1.5	CCC
2,4-DINITROPHENOL	0.100	0.096	-4.4	SPCC
DIBENZOFURAN	1.628	1.640	0.8	
2,4-DINITROTOLUENE	0.230	0.321	39.5	
4-NITROPHENOL	0.120	0.106	-11.7	SPCC
3-NITROANILINE	0.173	0.098	-43.2	
FLUORENE	1.228	1.337	8.9	
4-CHLOROPHENYL PHENYL ETHER	0.657	0.605	-7.9	
DIETHYL PHTHALATE	1.197	1.402	17.1	
4-NITROANILINE	0.127	0.110	-13.3	
4,6-DINITRO-2-METHYLPHENOL	0.128	0.141	9.7	
1,2-DIPHENYLHYDRAZINE	0.073	0.043	-42.1	
N-NITROSODIPHENYLAMINE	0.252	0.231	-8.2	CCC
4-BROMOPHENYL PHENYL ETHER	0.239	0.240	0.1	
HEXACHLOROBENZENE	0.255	0.264	3.3	
PENTACHLOROPHENOL	0.145	0.126	-13.3	CCC
PHENANTHRENE	1.211	1.254	3.6	

ANTHRACENE	0.868	0.906	4.4	
DI-N-BUTYL PHTHALATE	1.278	1.833	43.4	
FLUORANTHENE	0.978	1.286	31.5	CCC
PYRENE	2.174	2.362	8.7	
BENZIDINE	0.000	0.000	0.0	SPCC
BUTYL BENZYL PHTHALATE	1.256	1.731	37.8	
BENZO(A)ANTHRACENE	1.384	1.452	4.9	
CHRYSENE	1.307	1.278	-2.1	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.0	
BIS(2-ETHYLHEXYL)PHTHALATE	1.314	1.820	38.5	
DI-N-OCTYL PHTHALATE	2.303	4.646	101.7	CCC
BENZO(B&/ORK)FLUORANTHENE	1.297	1.656	27.7	
BENZO(A)PYRENE	0.728	0.933	28.2	CCC
INDENO(1,2,3-C,D)PYRENE	0.881	1.029	16.8	
DIBENZO(A,H)ANTHRACENE	0.778	0.841	8.1	
BENZO(GHI)PERYLENE	0.934	1.077	15.3	

RECEIVED MAY 2 2 1985

INITIAL CALIBRATION DATA SEMI-VOLATILE HSL COMPOUNDS

68-01-6958

CASE NO. 4129 CONTRACT LAB. CAL CONTRACT NO.

INSTRUMENT IDENTIFIER F4 CALIBRATION DATE: 4-30-85

MAXIMUM %RSD FOR CCC IS 30% MINIMUM AVE RF FOR SPCC IS 0.050

LAB ID

RECEIVED MAY 22 1985

COMPOUND	RF20	RF50	RF80	RF120	RF160	AVE RF	%RSD	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
ANILINE	0.365	0.877	0.940	0.929	0.762	0.775	61.764	
PHENOL	1.519	1.663	1.686	1.398	1.165	1.487	21.334	CCC
BIS (2-CHLOROETHYL) ETHER	1.499	1.521	1.924	1.440	1.206	1.518	28.753	
2-CHLOROPHENOL	0.996	1.046	1.199	0.983	0.858	1.017	19.845	
1,3-DICHLOROBENZENE	1.178	1.160	1.418	1.051	0.805	1.123	30.465	
1,4-DICHLOROBENZENE	1.150	1.125	1.250	0.980	0.839	1.069	23.092	CCC
1,2-DICHLOROBENZENE	1.076	1.083	1.256	0.898	0.781	1.019	29.345	
BIS(2-CHLOROISOPROPYL)ETHER	0.350	0.336	0.405	0.341	0.310	0.349	17.431	
HEXACHLOROETHANE	0.558	0.563	0.638	0.548	0.462	0.554	17.014	
BENZYL ALCOHOL	0.579	0.666	0.780	0.726	0.628	0.676	22.554	
N-NITROSO-N-PROPYLAMINE	0.164	0.184	0.201	0.179	0.160	0.178	16.202	SPC
2-METHYL PHENOL	0.938	1.081	1.156	1.031	0.846	1.011	19.084	
4-METHYL PHENOL	0.930	1.069	1.200	1.026	0.813	1.008	23.193	
NITROBENZENE	0.297	0.347	0.376	0.362	0.283	0.333	20.486	
ISOPHORONE	1.477	1.743	1.717	1.536	1.265	1.548	19.152	
2-NITROPHENOL	0.220	0.301	0.287	0.279	0.253	0.268	23.275	CCC
2,4-DIMETHYLPHENOL	0.411	0.555	0.525	0.519	0.414	0.485	24.497	
BIS(2-CHLOROETHOXY)METHANE	0.727	0.887	0.829	0.790	0.651	0.777	18.452	
2,4-DICHLOROPHENOL	0.337	0.443	0.424	0.403	0.330	0.388	22.845	CCC
BENZOIC ACID	*	0.243	0.226	0.256	0.220	0.237	10.382	
1,2,4-TRICHLOROBENZENE	0.391	0.442	0.459	0.426	0.353	0.415	15.620	
NAPHTHALENE	1.349	1.502	1.377	1.100	0.876	1.241	30.656	
4-CHLOROANILINE	0.079	0.407	0.355	0.445	0.399	0.337	85.860	
HEXACHLOROBUTADIENE	0.213	0.247	0.256	0.229	0.200	0.229	16.710	CCC
4-CHLORO-3-METHYLPHENOL	0.086	0.115	0.115	0.113	0.093	0.105	24.433	CCC
2-METHYLNAPHTHALENE	0.895	1.163	1.070	0.920	0.697	0.949	29.189	
HEXACHLOROCYCLOPENTADIENE	0.365	0.437	0.459	0.429	0.343	0.407	20.098	SPC
2,4,6-TRICHLOROPHENOL	0.414	0.476	0.527	0.498	0.408	0.465	19.614	CCC
2,4,5-TRICHLOROPHENOL	*	0.464	0.527	0.428	0.353	0.443	22.235	
2-CHLORONAPHTHALENE	1.489	1.735	1.743	1.532	1.146	1.529	22.563	
2-NITROANILINE	*	0.506	0.496	0.511	0.431	0.486	8.906	
ACENAPHTHYLENE	2.231	2.453	2.548	2.144	1.627	2.201	22.906	
DIMETHYL PHTHALATE	1.460	1.732	1.784	1.610	1.334	1.584	18.975	
2,6-DINITROTOLUENE	0.292	0.378	0.429	0.384	0.313	0.360	28.829	
ACENAPHTHENE	1.363	1.560	1.615	1.407	1.142	1.418	19.641	CCC
2,4-DINITROPHENOL	*	0.106	0.122	0.136	0.125	0.123	17.308	SPC
DIBENZOFURAN	1.834	2.214	2.189	1.878	1.545	1.932	22.433	
2,4-DINITROTOLUENE	0.273	0.397	0.397	0.420	0.368	0.371	31.069	
4-NITROPHENOL	*	0.115	0.133	0.117	0.106	0.118	13.969	SPC
3-NITROANILINE	*	0.125	0.109	0.183	0.212	0.158	43.691	
FLUORENE	1.466	1.801	1.899	1.700	1.286	1.631	24.275	
4-CHLOROPHENYL PHENYL ETHER	0.663	0.747	0.828	0.756	0.644	0.728	17.807	
DIETHYL PHTHALATE	1.500	1.918	1.933	1.757	1.302	1.652	25.647	
4-NITROANILINE	*	0.088	0.102	0.123	0.142	0.114	28.721	
4,6-DINITRO-2-METHYLPHENOL	*	0.185	0.189	0.182	0.157	0.179	9.468	
1,2-DIPHENYLHYDRAZINE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
N-NITROSODIPHENYLAMINE	0.346	0.375	0.384	0.405	0.338	0.370	12.796	CCC
4-BROMOPHENYL PHENYL ETHER	0.269	0.340	0.331	0.305	0.247	0.299	21.721	
HEXACHLOROBENZENE	0.329	0.407	0.373	0.345	0.272	0.346	22.236	
PENTACHLOROPHENOL	*	0.215	0.211	0.202	0.167	0.199	13.023	CCC
PHENANTHRENE	1.459	1.803	1.822	1.577	1.236	1.580	24.255	
ANTHRACENE	1.203	1.500	1.538	1.336	1.051	1.326	24.513	
DI-N-BUTYL PHTHALATE	2.069	2.522	2.300	1.976	1.430	2.060	29.046	
FLUORANTHENE	1.357	1.567	1.705	1.478	1.140	1.450	22.622	CCC
PYRENE	4.005	4.573	4.538	3.820	2.980	3.984	23.599	
BENZIDINE	*	0.000	0.000	0.000	0.000	0.000	0.000	SPC
BUTYL BENZYL PHTHALATE	1.693	2.201	2.341	2.134	1.563	1.987	28.263	
BENZO(A)ANTHRACENE	1.591	1.901	2.188	2.519	1.727	1.986	35.668	
CHRYSENE	1.775	1.888	1.904	2.009	1.399	1.795	17.438	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
BIS(2-ETHYLHEXYL)PHTHALATE	2.571	3.362	3.275	2.878	2.012	2.820	29.604	
DI-N-OCTYL PHTHALATE	4.639	7.799	8.285	5.553	5.322	6.320	49.179	CCC
BENZO(B&/OR K)FLUORANTHENE	1.849	2.542	2.232	2.062	1.188	1.975	37.035	
BENZO(A)PYRENE	1.078	1.628	1.386	1.314	1.101	1.302	31.836	CCC
INDENO(1,2,3-C,D)PYRENE	0.906	1.290	1.086	1.066	0.880	1.046	28.142	
DIBENZO(A,H)ANTHRACENE	0.614	0.956	0.810	0.806	0.682	0.774	32.350	
BENZO(GHI)PERYLENE	1.136	1.623	1.279	1.238	0.954	1.246	33.300	

* - NOT DETECTABLE AT 20NG

OLD AND NEW AVE. RF COMPARED.

OLD RF	NEW RF
4-8-85	4/30/85
0.000	0.000
0.821	0.752
1.168	1.487
1.183	1.518
0.844	1.017
0.881	1.123
0.888	1.069
0.785	1.019
0.268	0.304
0.403	0.554
0.485	0.676
0.117	0.178
0.730	1.011
0.704	1.008
0.225	0.333
0.762	1.548
0.215	0.268
0.335	0.485
0.571	0.777
0.314	0.388
0.140	0.237
0.346	0.415
0.947	1.238
0.308	0.334
0.179	0.229
0.086	0.104
0.815	0.945
0.340	0.407
0.379	0.465
0.407	0.443
1.275	1.529
0.430	0.486
1.462	2.201
1.281	1.584
0.280	0.360
1.108	1.418
0.099	0.123
1.627	1.932
0.229	0.371
0.119	0.118
0.172	0.158
1.227	1.630
0.656	0.728
1.196	1.682
0.126	0.094
0.127	0.179
0.072	0.000
0.251	0.370
0.238	0.299
0.254	0.346
0.144	0.199
1.210	1.580
0.867	1.326
1.277	2.060
0.977	1.450
2.173	3.984
0.000	0.000

RECEIVED MAY 2 2 1985

1.255	1.987
1.283	1.986
1.306	1.795
0.000	0.000
1.313	2.820
2.302	6.320
1.296	1.783
0.727	1.302
0.880	1.046
0.777	0.774
0.933	1.246

RECEIVED MAY 2 2 1989

CONTINUING CALIBRATION CHECK-SEMIVOLATILE HSL COMPOUNDS

CASE NO. CONTRACT NO.
INSTRUMENT IDENTIFIER: F4 CALIBRATION DATE: 4-30-85
STANDARD FILE: L4850430 DATE: 04/30/85 TIME: 11:39

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.050

RECEIVED MAY 2 2 1985

COMPOUND	AVERF	RRF	% D	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.0	
ANILINE	0.775	0.880	13.5	
PHENOL	1.487	1.666	12.0	CCC
BIS (2-CHLOROETHYL) ETHER	1.518	1.524	0.4	
2-CHLOROPHENOL	1.017	1.049	3.1	
1,3-DICHLOROBENZENE	1.123	1.163	3.6	
1,4-DICHLOROBENZENE	1.069	1.128	5.5	CCC
1,2-DICHLOROBENZENE	1.019	1.086	6.6	
BIS(2-CHLOROISOPROPYL)ETHER	0.349	0.339	-3.0	
HEXACHLOROETHANE	0.554	0.566	2.2	
BENZYL ALCOHOL	0.676	0.669	-1.0	
N-NITROSO-N-PROPYLAMINE	0.178	0.187	4.9	SPCC
2-METHYL PHENOL	1.011	1.084	7.2	
4-METHYL PHENOL	1.008	1.072	6.3	
NITROBENZENE	0.333	0.350	5.1	
ISOPHORONE	1.548	1.746	12.8	
2-NITROPHENOL	0.268	0.304	13.4	CCC
2,4-DIMETHYLPHENOL	0.485	0.558	15.0	
BIS(2-CHLOROETHOXY)METHANE	0.777	0.890	14.5	
2,4-DICHLOROPHENOL	0.388	0.446	14.7	CCC
BENZOIC ACID	0.237	0.246	3.6	
1,2,4-TRICHLOROBENZENE	0.415	0.445	7.1	
NAPHTHALENE	1.241	1.505	21.3	
4-CHLOROANILINE	0.337	0.410	21.5	
HEXACHLOROBUTADIENE	0.229	0.250	9.2	CCC
4-CHLORO-3-METHYLPHENOL	0.105	0.118	12.3	CCC
2-METHYLNAPHTHALENE	0.949	1.166	22.9	
HEXACHLOROCYCLOPENTADIENE	0.407	0.440	8.1	SPCC
2,4,6-TRICHLOROPHENOL	0.465	0.479	3.0	CCC
2,4,5-TRICHLOROPHENOL	0.443	0.467	5.3	
2-CHLORONAPHTHALENE	1.529	1.738	13.7	
2-NITROANILINE	0.486	0.509	4.7	
ACENAPHTHYLENE	2.201	2.456	11.6	
DIMETHYL PHTHALATE	1.584	1.735	9.5	
2,6-DINITROTOLUENE	0.360	0.381	5.7	
ACENAPHTHENE	1.418	1.563	10.2	CCC
2,4-DINITROPHENOL	0.123	0.109	-12.0	SPCC
DIBENZOFURAN	1.932	2.217	14.8	
2,4-DINITROTOLUENE	0.371	0.400	7.8	
4-NITROPHENOL	0.118	0.118	0.0	SPCC
3-NITROANILINE	0.158	0.128	-19.0	
FLUORENE	1.631	1.804	10.6	
4-CHLOROPHENYL PHENYL ETHER	0.728	0.750	3.1	
DIETHYL PHTHALATE	1.682	1.921	14.2	
4-NITROANILINE	0.114	0.091	-20.5	
4,6-DINITRO-2-METHYLPHENOL	0.179	0.188	4.7	
1,2-DIPHENYLHYDRAZINE	0.000	0.000	0.0	
N-NITROSODIPHENYLAMINE	0.370	0.377	1.9	CCC
4-BROMOPHENYL PHENYL ETHER	0.299	0.343	14.5	
HEXACHLOROBENZENE	0.346	0.410	18.4	
PENTACHLOROPHENOL	0.199	0.218	9.4	CCC
PHENANTHRENE	1.580	1.806	14.3	

ANTHRACENE	1.326	1.503	13.3	
DI-N-BUTYL PHTHALATE	2.060	2.525	22.6	
FLUORANTHENE	1.450	1.570	8.3	CCC
PYRENE	3.984	4.576	14.9	
BENZIDINE	0.000	0.000	0.0	SPCC
BUTYL BENZYL PHTHALATE	1.987	2.204	10.9	
BENZO(A)ANTHRACENE	1.986	1.904	-4.0	
CHRYSENE	1.795	1.891	5.4	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.0	
BIS(2-ETHYLHEXYL)PHTHALATE	2.820	3.365	19.4	
DI-N-OCTYL PHTHALATE	6.320	7.802	23.5	CCC
BENZO(B&/ORK)FLUORANTHENE	1.975	2.545	28.9	
BENZO(A)PYRENE	1.302	1.631	25.3	CCC
INDENO(1,2,3-C,D)PYRENE	1.046	1.293	23.6	
DIBENZO(A,H)ANTHRACENE	0.774	0.959	23.9	
BENZO(GHI)PERYLENE	1.246	1.626	30.5	

RECEIVED MAY 2 2 1985

CONTINUING CALIBRATION CHECK-SEMIVOLATILE HSL COMPOUNDS

68 01 6958

CASE NO. 4129 CONTRACT NO.

INSTRUMENT IDENTIFIER: F4 CALIBRATION DATE: 4-30-85

STANDARD FILE: L4850430 DATE: 04/30/85 TIME: 11:39

MAXIMUM %D FOR CCC IS 25 MINIMUM RF FOR SPCC IS 0.050

RECEIVED MAY 22

COMPOUND	AVERF	RRF	% D	
N-NITROSODIMETHYLAMINE	0.000	0.000	0.0	
ANILINE	0.775	0.880	13.5	
PHENOL	1.487	1.666	12.0	CCC
BIS (2-CHLOROETHYL) ETHER	1.518	1.524	0.4	
2-CHLOROPHENOL	1.017	1.049	3.1	
1,3-DICHLOROBENZENE	1.123	1.163	3.6	
1,4-DICHLOROBENZENE	1.069	1.128	5.5	CCC
1,2-DICHLOROBENZENE	1.019	1.086	6.6	
BIS(2-CHLOROISOPROPYL)ETHER	0.349	0.339	-3.0	
HEXACHLOROETHANE	0.554	0.566	2.2	
BENZYL ALCOHOL	0.676	0.669	-1.0	
N-NITROSO-N-PROPYLAMINE	0.178	0.187	4.9	SPCC
2-METHYL PHENOL	1.011	1.084	7.2	
4-METHYL PHENOL	1.008	1.072	6.3	
NITROBENZENE	0.333	0.350	5.1	
ISOPHORONE	1.548	1.746	12.8	
2-NITROPHENOL	0.268	0.304	13.4	CCC
2,4-DIMETHYLPHENOL	0.485	0.558	15.0	
BIS(2-CHLOROETHOXY)METHANE	0.777	0.890	14.5	
2,4-DICHLOROPHENOL	0.388	0.446	14.7	CCC
BENZOIC ACID	0.237	0.246	3.6	
1,2,4-TRICHLOROBENZENE	0.415	0.445	7.1	
NAPHTHALENE	1.241	1.505	21.3	
4-CHLOROANILINE	0.337	0.410	21.5	
HEXACHLOROBUTADIENE	0.229	0.250	9.2	CCC
4-CHLORO-3-METHYLPHENOL	0.105	0.118	12.3	CCC
2-METHYLNAPHTHALENE	0.949	1.166	22.9	
HEXACHLOROCYCLOPENTADIENE	0.407	0.440	8.1	SPCC
2,4,6-TRICHLOROPHENOL	0.465	0.479	3.0	CCC
2,4,5-TRICHLOROPHENOL	0.443	0.467	5.3	
2-CHLORONAPHTHALENE	1.529	1.738	13.7	
2-NITROANILINE	0.486	0.509	4.7	
ACENAPHTHYLENE	2.201	2.456	11.6	
DIMETHYL PHTHALATE	1.584	1.735	9.5	
2,6-DINITROTOLUENE	0.360	0.381	5.7	
ACENAPHTHENE	1.418	1.563	10.2	CCC
2,4-DINITROPHENOL	0.123	0.109	-12.0	SPCC
DIBENZOFURAN	1.932	2.217	14.8	
2,4-DINITROTOLUENE	0.371	0.400	7.8	
4-NITROPHENOL	0.118	0.118	0.0	SPCC
3-NITROANILINE	0.158	0.128	-19.0	
FLUORENE	1.631	1.804	10.6	
4-CHLOROPHENYL PHENYL ETHER	0.728	0.750	3.1	
DIETHYL PHTHALATE	1.682	1.921	14.2	
4-NITROANILINE	0.114	0.091	-20.5	
4,6-DINITRO-2-METHYLPHENOL	0.179	0.188	4.7	
1,2-DIPHENYLHYDRAZINE	0.000	0.000	0.0	
N-NITROSODIPHENYLAMINE	0.370	0.377	1.9	CCC
4-BROMOPHENYL PHENYL ETHER	0.299	0.343	14.5	
HEXACHLOROBENZENE	0.346	0.410	18.4	
PENTACHLOROPHENOL	0.199	0.218	9.4	CCC
PHENANTHRENE	1.580	1.806	14.3	

ANTHRACENE	1.326	1.503	13.3	
DI-N-BUTYL PHTHALATE	2.060	2.525	22.6	
FLUORANTHENE	1.450	1.570	8.3	CCC
PYRENE	3.984	4.576	14.9	
BENZIDINE	0.000	0.000	0.0	SPCC
BUTYL BENZYL PHTHALATE	1.987	2.204	10.9	
BENZO(A)ANTHRACENE	1.986	1.904	-4.0	
CHRYSENE	1.795	1.891	5.4	
3,3'-DICHLOROBENZIDINE	0.000	0.000	0.0	
BIS(2-ETHYLHEXYL)PHTHALATE	2.820	3.365	19.4	
DI-N-OCTYL PHTHALATE	6.320	7.802	23.5	CCC
BENZO(B&/ORK)FLUORANTHENE	1.975	2.545	28.9	
BENZO(A)PYRENE	1.302	1.631	25.3	CCC
INDENO(1,2,3-C,D)PYRENE	1.046	1.293	23.6	
DIBENZO(A,H)ANTHRACENE	0.774	0.959	23.9	
BENZO(GHI)PERYLENE	1.246	1.626	30.5	

RECEIVED MAY 2 2 1985

CASE NO. : 4129
CONTRACT NO. : 68-01-6958
DATE : 4-22-85 TO 4-23-85

CALIFORNIA ANALYTICAL LABS.,INC.
COLUMN :MIXED PHASE
INSTRUMENT ID :6

EVALUATION CHECK FOR LINEARITY

PESTICIDE	CALIB(A)	CALIB(B)	CALIB(C)	% RSD
ALDRIN	444800	436800	439700	0.9
ENDRIN	137440	134440	134500	1.3
DDT	60320	62660	67160	5.5
DBCD	57000	56240	57510	1.1

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN
% BREAKDOWN = TOTAL DEGRADATION

RECEIVED MAY 2 2 1985

STD ID#	TIME OF ANALYSIS	ENDRIN BREAKDOWN	4,4'-DDT BREAKDOWN
STD B	21:18	0.0	5.5
STD B	06:05	3.3	5.1
STD B	12:08	0.0	6.9

EVALUATION OF SURROGATE RETENTION TIME SHIFT

SMO SAMPLE NO.	LAB ID#	TIME OF INJECTION	PERCENT DIFFERENCE
Method Blank	L728-MBP	03:46	0.5
EB 939	L728-P	04:13	0.5
EB 940	L729-P	04:41	0.5
EB 941	L730-P	05:08	0.7
EB 942	L731-P	07:00	0.5
~~EB 94~~ ED 101	L732-P	07:27	0.2
ED 102	L733-P	07:55	0.2
ED 103	L734-P	08:23	-0.2
ED 104	L735-P	09:46	-0.2

PESTICIDE/PCB STANDARDS SUMMARY

CASE NO. : 4129 CALIFORNIA ANALYLITICAL LABS.,INC.
CONTRACT NO : 68-01-6958
INSTRUMENT ID : 6 GC COLUMN :MIXED PHASE / QUANTITATIVE

RECEIVED MAY 2 2 1985

	DATE OF ANALYSIS : 4-22-85 TIME OF ANALYSIS : 22:12 LAB ID# : SM 90				DATE OF ANALYSIS: 4-23-85 TIME OF ANALYSIS: 08:51 LAB ID# : SM 90		
COMPOUND	RT	WINDOW		FACTOR	RT	FACTOR	%DIFF
ALPHA-BHC	1.958	1.899 -	2.017	798400	1.960	906800	-13.58
GAMMA-BHC	2.422	2.349 -	2.495	608600	2.426	706000	-16.00
BETA-BHC	2.684	2.603 -	2.765	188600	2.687	220900	-17.13
HEPTACHLOR	2.963	2.874 -	3.052	473900	2.970	549400	-15.93
DELTA-BHC	3.120	3.026 -	3.214	525300	3.126	623700	-18.73
ALDRIN	3.553	3.446 -	3.660	420000	3.564	480100	-14.31
HEPTACHLOR EPOXIDE	5.109	4.956 -	5.262	275600	5.123	318000	-15.38
ENDO-1	6.368	6.177 -	6.559	217250	6.386	255150	-17.45
4,4'-DDE	7.117	6.903 -	7.331	199450	7.141	245450	-23.06
DIELDRIN	7.670	7.440 -	7.900	191650	7.696	236500	-23.40
ENDRIN	9.230	8.953 -	9.507	106050	9.266	154050	-45.26
4,4'-DDD/ENDO-2	10.576	10.259 -	10.893	110967	10.600	137783	-24.17
4,4'-DDT	12.659	12.279 -	13.039	62050	12.698	72633	-17.06
ENDRIN ALDEHYDE	14.051	13.629 -	14.473	55433	14.051	64000	-15.45
ENDOSUFAN SULFATE	16.716	16.215 -	17.217	27867	16.765	49950	-79.25
END-KT/METHOXYCHLOR	22.911	22.224 -	23.598	19522	23.005	25269	-29.44