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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/26/94

SUBJECT: Review of Region V CLP Data
Received for Review on May 16, 1994

FROM: Charles T. Elly, Director (SL-10C) MSP for CTE
Central Regional Laboratory

TO: Data User: B+V

We have reviewed the data for the following case.

SITE NAME: Ave. D + 118th ST (all)

CASE and/or SAS NUMBER: 21882 SDG NUMBER: EWW48

Number and Type of Samples: 5 (water/soil)

CLP Sample Numbers: EWW 48, 51 EWX 45-47

CLP Laboratory: Keystone (Houston) Hrs. for Review 5½+2=7.5 WJW

Following are our findings:

The data are acceptable for use with qualification.

Mumtaj Pasher
5/26/94

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualification.
( ) Data are preliminary, pending verification by laboratory.
( ) Data are unacceptable.

cc: Edward Kantor, EMSL-Las Vegas
Julie Frankel, VIAR & Co. (SMO)

US EPA RECORDS CENTER REGION 5
412403

NARRATIVE

CONTRACTOR; Keystone (Houston)
SITE: Ave. O & 118th St. (IL)

Case Number 21882

This case consisted of 3 soil samples and 2 water samples which were submitted for routine analysis. These samples were received by the laboratory in good condition, and run without significant problems.

This reviewers comments are contained in the following pages of this narrative.

Reviewed by M. Kaminsky Lockheed/ESAT
May 19,1994

NARRATIVE

CONTRACTOR; Keystone (Houston)
SITE: Ave. O & 118th St. (IL)

Case Number 21882

1. Holding Times:
This case consisted of 3 soil samples and 2 water samples. All of the samples were received on April 12,1994; the volatile samples were analyzed and the semi-volatile and pesticides were extracted and run by the laboratory in time to meet the required holding time criteria, therefore, results are acceptable.

2.GC/MS Tuning and GC Instrument Performance:
Both the tuning and the instrument performance were satisfactory.

3.Calibration:
Initial and continuing calibrations of VOC, Semi-Voc, and Pesticide standards were evaluated for the target compound list(TCL) and TICs and outliers were recorded on the outlier forms included as part of this narrative.

4.Method Blank:
The volatile blanks VBLK1, VBLK2, and VBLK3 were found to be clean.
The semi-volatile blank SBLK1 was found to be clean. Blank SBLK2 contained 1 TIC. Concentration of the TIC in the associated samples must be at least 5x the blank concentration to be considered usable.
The Pesticide blanks PBLK1 and PBLK2 were found to be clean. Associated samples are included on form (IV).

5.Suggogate Recoveries:
The volatile and semi-volatile fractions had no system monitoring compounds out side of QC limits.
In the pesticide fraction, TCX(tetrachloro-m-xylene were out of control in samples EWX47 and EWW51. DCB(decachlorobiphenyl) was out of control for the following samples; EWW51, EWX45, EWX47, and EWX45MSD. All positive detects for the associated compounds should be considered estimated (J), while non-detects (UJ).

6.MS/MSD and RPD (LABORATORY CONTROL SAMPLE):
Sample EWX45 was used for soil spiking for the VOA, Semi-VOA and Pesticide/PCB, while no water spike was done for any fraction. This is a violation of contract.
In the volatile fraction no problems were encountered.
In the Semi-volatile soil spike sample the MS %REC were high but less than 100% for 2,4-dinitrotoluene and needs no qualification. Pentachlorophenol had 0% MS and MSD recoveries. Therefore, detects in the associated unspiked sample are to be considered as estimated (J) and all non-detects as unusable (R).

Reviewed by M. Kaminsky Lockheed/ESAT
May 19,1994

CONTRACTOR; Keystone (Houston)
SITE: Ave. O & 118th St. (IL)

Case Number 21882

In the pesticide fraction 4,4'-DDT had high recoveries in both the MS and MSD. Therefore, detects in the associated unspiked sample are to be considered as estimated (J) and all non-detects estimated (UJ).

7.Field blanks and Field Duplicates and other QC:
None were indicated on the chain of custody. Sample EWW48 was indicated on the COC to be a trip blank.

8.Internal Standards:
All internal standards met QC requirements.

9.Compound Quantification and Reported Detection Limits:
All target compounds and TICs were properly reported in the volatile, semi-volatile, and pesticide fractions; therefore data is acceptable.
In the pesticide fraction the SOW requires that the calibration of the multicomponent compounds must display the peaks at greater that 25%. The Aroclor and toxaphene calibrations do not meet this requirement, therefore, the Aroclor and toxaphene data is to be considered estimated and qualified for all detects (J) and (UJ) for all non-detects.

10.Compound Identification:
Target compounds and TICs were identified by 'best fit' library search method and appear to be correct.

11.System Performance:
Base line indicated acceptable performance; therefore data is acceptable in the volatile and semi-volatile fractions.

12.Overall Case Assessment:
This reviewer found no other apparent case problems to be noted at this time.

Reviewed by M. Kaminsky Lockheed/ESAT
May 19,1994

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21882
COLUMN:
HEATED PURGE (Y/N): N

CONTRACTOR: KEYTX
SITENAME: Ave O

Instrument# 402D		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		4-14 1/20														
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0.384	31.7	J												
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															

Samples affected:
VBLK1
EWW48
EWW51

Reviewer's Init/Date: MK 5/18/94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21228
COLUMN:
Heated Purge (Y/N): Y

CONTRACTOR: KEYTX
SITENAME: Ore O

Instrument# SIEF		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		4/14 1232			4/18 1059			4/21 1112								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0.732						0.490	33.1	J						
Bromomethane	0.10	1.641						1.041	36.6	J						
Vinyl chloride	0.10	1.459						0.910	37.6	J						
Chloroethane	0.01															
Methylene chloride	0.01	1.269	68.0	J												
Acetone	0.01	1.269	68.0	J	0.780	40.9	J									
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	2.273	60.7	J	1.169	48.6	J	1.674	26.4	J						
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01	1.251	37.9	J	0.909	27.3	J									
2-Hexanone	0.01	0.911	46.2	J	0.582	36.1	J									
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															
					VBLK2			VBLK3								
Samples affected:					EWX45			EWX 45MS								
					EWX 46			EWX 45MSD								
					EWX 47			EWX 46RE								
								EWX 47RE								

Reviewer's Init/Date: MC 5/8/94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 21882
COLUMN:

CONTRACTOR: Keytx
SITE NAME: Ace A

Instrument# 4530		Initial Cal			Contin. Cal.			Contin Cal.			Contin. Cal			Contin Cal		
Date/Time:		1-28 1025			4/21 1116			4/28 1037								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01	1.519						1.057	30.4	J						
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxy)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01	0.457			0.234	47.7	J									
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	0.241	31.6	J				0.144	40.2	J						
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01	0.333			0.435	30.6	J									
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01	0.388			0.279	28.1	J									
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.089	45.0	J	0.146	64.0	J	0.147	58.4	J						
4-Nitrophenol	0.01	0.111						0.057	48.6	J						
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples

SBLK 2	EWX45MSD	
EWX 45		
EWX 45MS		
EWX 46		
EWX 47		

Reviewer's Init/Date: MK 5-18-94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 21882
COLUMN:

CONTRACTOR: Keyt
SITE NAME: Arco

Instrument# 4530		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		1-28 1021			4/21 1116			4/28 1037								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01	0.371			0.235	36.7	J									
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01	0.681			0.497	27.0	J									
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05	0.101			0.136	34.6	J									
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole		1.164			0.809	30.5	J									
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.428			0.272	36.4	J									
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50	0.742						1.010	36.1	J						
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50	0.851						1.066	25.3	J						
Nitrobenzene-d5	0.01	0.415						0.284	31.6	J						
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60	1.649			1.118	32.2	J									
2,4,6-Tribromophenol	0.01	0.126			0.178	41.3	J									
2-Chlorophenol-d4		2.067			1.426	31.0	J	1.434	30.6	J						
1,2-Dichlorobenzene-d4																

Reviewer's Initials/Date: MK 5-18-94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 21882
COLUMN:

CONTRACTOR: KEYTX
SITE NAME: Ore O

Instrument# 4510		Initial Cal			Contin. Cal.			Contin Cal.			Contin. Cal			Contin Cal		
Date/Time:		3/29 0829			4/14 0937											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20	0.488			0.337	30.9	J									
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxy)-methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01	0.414			0.186	55.1	J									
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01	0.273	33.9	J												
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01	0.410			0.517	26.1	J									
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01	0.150	46.5	J												
4-Nitrophenol	0.01	0.079	40.6	J												
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples: SBLK1, EWWS1

Reviewer's Init/Date: MK 5-18-94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 21882
COLUMN:

CONTRACTOR: Keytx
SITE NAME: Ba 8

Instrument# 4860		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin Cal		
Date/Time:		3/29 0928			4/14 0937											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01	0.123			0.158	28.5	S									
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.371			0.245	34.0	S									
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Initials/Date: MK 5-18-94

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\# Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21882
COLUMN: DB 1701

CONTRACTOR: Keytx
SITE NAME: [illegible]

Instrument# EVA 30A		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		5/05 2106			5/06 1047											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBLK2			
	EWW 51			

Reviewer's Init/Date: MK 5-19-94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21882
COLUMN: DB5

CONTRACTOR: Keyk
SITE NAME: Ame O

Instrument# EVA 30B		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		5/05 2106			5/06 1047											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBLK2			
	EWW51			

Reviewer's Init/Date: MK 5/19/94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21882
COLUMN: DB1701

CONTRACTOR: KEYTX
SITE NAME: Ame O

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		5/07 1250			5/08 [illegible]											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

PBLK
EWX 47
EWX 46
EWX 45
EWX 45MS
EWX 45MSD

Reviewer's Init/Date: MK 5-19-94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 21882
COLUMN: DB5

CONTRACTOR: Keytex
SITE NAME: Ave O

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		5/07 1250			5/08 1105											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

PBLK1
EWX 47
EWX 46
EWX 45
EWX 45MS
EWX 45MSD

Reviewer's Init/Date: MK 5-19-94

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

X Indicates a manual adjustment was made to the program by the operator. The flag is automactically assigned by the computer and has no significance to the analysis result.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.