IL-0300-07

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

US EPA RECORDS CENTER REGION 5
473229

Date Received for Review: 1/17/85 Date Review Completed: 1/18/85

To: Dan Cozza

From: Cynthia Bachunas

Subject: Sexton Matteson IL Case 3567
RS-8303-IF

Sample Description: low waters organics

Project Data Status: Awaiting Inorganics

FIT Data Review Findings:
Methylene chloride, acetone + phtalates should not be used

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/15/85

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SUBJECT: Review of Region V CLP Data
Received for Review on 12/31/84

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

TO: Data User: FIT

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

SITE NAME: Sexton Matteson SMO Case No. 3567

EPA Data Set No. SF865 No. of Samples: 2 D.U./Activity Numbers Y905 IC48500

CRL No. 85MC04S63 to 85MC04R08

SMO Traffic No. EA603 to EA604

CLP Laboratory: Pedco Hrs. Required for Review: 4

Following are our findings.

Precision meets QC standards for VOA, Acid, B/N + pesticides
Accuracy " " " " " " "
Accuracy bias Low for pesticides
methylene chloride was greater than 5 times the CRDL in the 11/27/84 blank.

Very poor chromatograms!

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above. R.H. 1-15-84
( ) 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)

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

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CRL Data Set No. SF 865 ERRIS No. _____

SMO Case No. 3567 Site Name: Sexton Matteson

Name of Laboratory: Pedco Data User: FIT

No. of Samples: 2 Date Samples Received: 12/31/84

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ___ NO ✓
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 2 Number of samples received: 2
7. Checked by: Marsha Phillips Date: 12/31/84
8. Received by Contract Project Management Section: G Thomas Date: 1/14/85
9. Review Started: _____ Reviewer Signature: _____
10. Total time spent on review: _____ Date review completed: _____
11. Copied (xeroxed) by: _____ Date: _____
12. Transmitted by: _____ Date: _____
13. Mailed to Data User by: _____ Date: _____
14. REMARKS:

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REVIEW OF CLP ORGANIC DATA

Contractor: PEDCO

Case 3567

The data package for this case was reviewed by Region V CRL personnel in accordance with the "Standard Operating Procedure for Contract Laboratory Program (CLP) Data Review; August 1984". The quality of the data was assessed based on laboratory compliance with the contract and the data quality objectives as defined by the data user.

This review covers the following samples and parameters:

SMO#	CRL#	MATRIX	VOA	ABN	PEST
EA603	85MC04563	WATER	✓	✓	✓
EA604	85MC04R08	WATER	✓	✓	✓

DATA QUALITY OBJECTIVES AND REVIEW

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Case 3567

OSC or responsible party: FIT

Case Objective Level C

Data Quality Needs N/A

Precision: SEE Summary

Bias:

Obtain the information above directly from the OSC or designee before starting data review. Categorize review level into one of the following (circle one):

A. Enforcement: Case is already an enforcement action, data is sure to be used in court.

B. Assessment: Case already has preliminary data, level and degree of contamination or clean up action needs to be determined.

C. Screening: Case purpose is to determine what, if any, pollutants are at the site, followup sampling likely.

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REVIEW SUMMARY

Case	3567

	VOA	A	BN	PEST
Precision	3.0	1.6	11.1	14.0
Bias	-8	-55.3	-41.8	-60.5

Precision expressed as mean RPD between appropriate matrix spike duplicate compounds.

Bias expressed as mean percent of appropriate surrogate spike recoveries from 100%.

Data Quality Needs Met?: Data Quality C WERE MET

Action Items to Resolve Data Quality:

Item Description	Responsible Party	Completion Date

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DATA QUALIFIERS

Contractor: PEDCO

Case 3567

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

Precision meets QC standards for VOA, Acid, B/N + pesticides
Accuracy meets QC standards for VOA, Acid, B/N + pesticides
Accuracy bias low for pesticides
Methylene Chloride was greater than 5 times the CRDL in the 11/27/84 blank.

Reviewed by: Robert Hall

Phone: (312) 886-1970

Date: 1-15-85

DATA PACKAGE COMPLETENESS AUDIT

CASE: 3567

Check if present:

CONTRACTOR: PEDCO

DELIVERABLES INDEX WA 84A-266,267

☑ I. Case Narrative

The Case narrative must contain: Case number, Contract number, summary of any QC, sample, shipment and analytical problems, and documentation of all internal decision tree processes used.

II. QC Summary

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☑ A. Surrogate Percent Recovery Summary (Form II)

☑ B. Matrix Spike/Matrix Spike Duplicate Summary (Form III)

☑ C. Reagent Blank Summary (Form IV)
(If more than a single form is necessary, it must be arranged in chronological order.)

☑ D. GC/MS Tuning and Calibration Standard (Form V)

☑ 1. DFTPP in chronological order; by instrument.

☑ 2. BFB in chronological order; by instrument.

III. Sample Data Package

A. Sample data in increasing SMO Number order:

☑ 1. HSL Results - Organic Analysis Data Sheet (Form I)

☑ 2. GC/MS tentative ID (Form I, Part B) - Must be included even if no compounds are found; if so, indicate on form: "no volatile compounds found" and/or "no semi-volatile compounds found."

3. Raw data - in order: VOA, BNA, Pesticide

☑ a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

☑ • Quantitation report or legible facsimile (GC/MS)

☑ • Integration report or data system printout (GC)

☑ c. HSL spectra with lab generated standard (Dual Display)

• data systems incapable of dual display shall provide spectra in order:

CASE: 3567

RECEIVED JAN 17 1985

- raw HSL compound spectra
- enhanced or background subtracted spectra
- laboratory generated HSL standard

d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

IV. Standards Data Package

A. Current list of laboratory calculated instrument detection limits for all HSL compounds.

B. Initial Calibration Data (Form VI) - in order: VOA, BNA; by instrument if more than one instrument used.

1. When more than one initial calibration is performed, the data must be put in chronological order. All initial calibration data must be included even for a specific Case.

C. Continuing Calibration (Form VII) - in order: VOA, BNA; by instrument if more than one instrument used.

1. When more than one Continuing Calibration is performed, forms must be in chronological order.

D. Pesticide forms in the following order:

1. Form VIII - Pesticide Evaluation Standards Summary

2. Form IX - Pesticide/PCB Standards Summary

3. Form X - Pesticide/PCB Identification (only required for positive results)

E. VOA standard(s) chromatograms and data system printouts (or legible facsimile). Spectra are not required.

F. BNA standard(s) chromatograms and data system printouts (or legible facsimile). Spectra are not required.

G. All pesticide evaluation standard(s) (A, B, and C) chromatograms and data system printouts in chronological order.

H. All pesticide Individual Standard Mix (A or B) chromatograms and data system printouts.

CASE: 356

I. Pesticide Quantitation standard(s) chromatograms and data system printouts.

V. Raw QC Data Package

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A. DFTPP

1. Bar graph spectrum
2. Mass listing

B. BFB

1. Bar graph spectrum
2. Mass listing

C. Blank Data

1. Tabulated results (Form I)
2. GC/MS tentative ID sheet (Form I, Part B) even if none found
3. Raw Data - in order: VOA, BNA, Pesticide
   a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)
   b. Chromatogram(s) and data system printout(s) (GC)
   c. HSL spectra with lab generated standard (dual display)
      - data systems which are incapable of dual display shall provide spectra in order:
        - raw HSL compound spectra
        - enhanced or background subtracted spectra
        - laboratory generated HSL standard spectra
   d. GC/MS library search spectra for Tentatively Identified Compounds (TIC)
   e. Quantitation/Calculation of Tentative ID concentrations

D. Matrix Spike Data

1. Tabulated results (Form I) of non-spiked compounds
2. Raw Data - in order: VOA, BNA, Pesticide

CASE: 3567

☑ a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

- spectra not required

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☑ b. Chromatogram(s) and data system printout(s) (GC)

E. Matrix Spike Duplicate Data

☑ 1. Tabulated results (Form I) of non-spiked compounds

2. Raw Data - in order: VOA, BNA, Pesticide

☑ a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

- spectra not required

☑ b. Chromatogram(s) and data system printout(s) (GC)

MISSING DELIVERABLES	DATE REQUESTED	REQUESTOR	DATE RECEIVED

CORRECTIVE ACTION: Call SMO at FTS-557-2490

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ABN, VOA
QUALITATIVE PRIORITY POLLUTANT ANALYSIS

Case: 3567

Contractor: PEDCO

SMO#	DATE TIME INJECTED	POSITIVE HIT COMPOUND	STANDARD DATE/ TIME INJ	RRT STD	RRT SAMPLE	(LIMIT) (±.06) Δ RRT	Check if OK, or note exceptions: All ions >10% in STD are in sample	relative intensity sample ± 20% STD	no ions >10% in sample not in STD
EA603	11/26/84 20:08	METHYLENE CHLORIDE	12/13/84 9:06	0.617	0.610 ~~1.814~~	0.007	✓	✓	✓
EA603	11/26/84 20:08	ACETONE	12/13/84 9:06	0.655	0.661	0.006	✓	✓	✓
EA603	12/21/84 17:13	DI-N-BUTYLPHTHALATE	12/19/84 11:41	1.111	1.109	0.002	✓	✓	✓
EA603	12/21/84 17:13	Bis(2-ETHYLHEXYL)PHTHALATE	12/19/84 11:41	1.023 ~~1.111~~	1.020 ~~0.091~~	0.003	✓	✓	✓
EA604	11/26/84 20:47	METHYLENE CHLORIDE	12/13/84 9:06	0.617	0.610	0.007	✓	✓	✓
EA604	11/26/84 20:47	ACETONE	12/13/84 9:06	0.661	0.576	0.034	✓	✓	✓

NOTE: False Positives, as determined by reviewer, should be flagged on Organic Analysis Data Sheet.

Case: 3567

Contractor: PEDCO

RECEIVED 1 7 1985

TENTATIVELY IDENTIFIED COMPOUNDS MATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

EA 603 BNA — SILANE

Case: 3567

Contractor: PEDCO

RECEIVED MAR 17 1985

LAB REAGENT/INSTRUMENT BLANK CONTAMINANTS

List only those compounds detected. Check OADS to ensure that the proper flag code B is present for the contaminants found. Contractors do not subtract lab blank contents from samples. If sample level is ≥ 10 x lab blank, pollutant may be really due to the sample. Flag all other sample data as invalid for these compounds.

Units: UG/L

COMPOUND	CRDL	BLANK LEVEL	LIMIT EXCEEDED?
METHYLENE CHLORIDE	5	40.1	35.1

NOTE: CH_2Cl_2, acetone, benzene, toluene, phthalates limits are <5 x CRDL, all others are <1 x CRDL.

Case: 3567

Contractor: PEDCO

O.K.

VOLATILES INITIAL AND CONTINUING CALIBRATION OUTLIERS

I = Initial
C = Continuing

List only outliers below

RECEIVED JAN 17 1985

COMPOUND	CCC %RSD (Limit ≤ 25%)	SPCC $\overline{RF}$ (Limit ≥ 0.3)	I or C	Date/Time

IMPACT ON ASSOCIATED SAMPLE DATA:

LAB CORRECTIVE ACTION TAKEN (i.e. new 5 point curve)

Case: 3567

Contractor: PEDCO

SPIKE OUTLIERS

Attach contractor supplied Forms II, III to this sheet.

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Reviewer note:

1) Advisory limits, if exceeded, do not invalidate sample data.

2) No reanalysis or corrective action is contractually required for MS/MSD outliers.

3) If reagent blank has 1 or more surrogates outside contract required QC limits, evidence of recalculation or reanalysis must be found with all new values in control. Call SMO to request reanalysis.

4) If a sample has 1 or more surrogates outside contract required QC limits, evidence of recalculation or reanalysis must be found in the data package. If any surrogate, upon reanalysis, are still out of control, sample data should be flagged as biased due to matrix effect.

OVERALL % OUTLIERS

Surrogate $\frac{\sum \text{outliers}}{\sum \text{all recoveries}} \times 100 = _____\%$

(Expect 5-15%)

Matrix $\frac{\sum \text{RPD outliers}}{\sum \text{all RPDs}} \times 100 = _____\%$

$\frac{\sum \text{outliers}}{\sum \text{all recoveries}} \times 100 = _____\%$

(No expectations)

Case: 3567

Contractor: PEDCO

O.K.

ABN INITIAL AND CONTINUING CALBRATION OUTLIERS

I = Initial
C = Continuing

List only outliers below.

RECEIVED JAN 17 1985

COMPOUND	CCC % RSD Limit ≤25%	SPCC $\overline{RF}$ Limit >.05	I or C	Date/Time

IMPACT ON ASSOCIATED SAMPLE DATA:

LAB CORRECTIVE ACTION TAKEN (i.e. new 5 point curve)

Case: 3567

Contractor: PEDCO

PCB/PESTICIDE GC/EC EVALUATION

Attach Form VIII to this sheet. List only outliers on this sheet.

A) Linearity Check Outliers (limit ≤ 10% rsd)

Pesticide	Date/Time	% rsd
ALDRIN	12-8-84	12.2

Note: No lab action required.

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B) Breakdown Check Outliers (limit <10% endrin)
(limit < 5% DDT)

Pesticide	Date/Time	% Breakdown	Samples Affected

Note: Lab must take corrective action. Subsequent runs must be in control. Affected samples must be repeated.

C) Dibutylchlorendate RT Shift Outliers
(limit: ≤2% packed column)
(limit: ≤0.3% cap column)

Standard Name	Date/Time	% Difference	Affected Sample #s

Note: Lab is to continue injecting replicate standards to meet criteria.

Case: 3567

Contractor: PEDCO

PCB/PESTICIDE STANDARDS EVALUATION

Attach Form IX to this sheet. List only outliers below. C = Confirmatic run, Q = quantitation run.

(% Diff Limit C < 20%)
Q < 10%)

Compound	C or Q	% DIFF	Affected Sample #s.

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Note: Lab must take corrective action and reanalyze affected samples if limits exceeded.

PCB/Pesticide Blank Contaminants

List only those compounds appearing at >CRDL. Sample data should be fla ged with a "B" code - check for this.

Compound	CRDL	Blank level	Affected Sample #s

Case: 3567

Contractor: PEDCO

PCB/PESTICIDE POSITIVE ID CONFIRMATION

If positive hits were found in the case, Form I must be submitted. Attach Form I to this sheet.

A. RT window criteria outliers (limit: 3 x sd of absolute RT of standard] [Allowable Exceptions: toxaphene, PCBs).

SMO#	Compound	RT actual	RT window Limit	STD Date/Time
EA603	METHOXYCHLOR	18.72	18.72 ± .023	

B. GC/EC confirmation outliers packed column. (Limit: at least 25% resolution between all compounds in standard chromatograms).

Compound	Approximate % Resolution	Affected Sample #s

C. GC/EC Confirmation Outliers - capillary column (Limit: at least 25% resolution between B-BHC/α-BHC, Dieldrin/DDT, DDD/endrin aldehyde, endosulfan sulfate/DDT)

Pesticide Pair	Approximate % Resolution	Affected Sample #s

RECEIVED JAN 17 1985

Case 3567

Contractor PEPCO

HOLDING TIME REQUIREMENTS

SMO#	VOA A Date Rec'd.	B Date Injected	B-A (Limit) ≤7 or 10*	Sample positive?	ABN, PCB/Pest A Date Rec'd.	B Date Ext.	C Date Anal.	B-A (Limit) ≤ 5,10 **	C-B (Limit) (≤ 40)	Sample positive
EA603	11/20/84	11/26/84			11/20/84	11/21/84	12/21/84			
EA604	11/20/84	11/26/84			11/20/84	11/21/84	12/21/84			

NOTE: No regulatory requirement for holding time exists for these analyses.

Negative samples: flag data as possibly not detected due to holding time exceeded.

Positive samples: flag data as quantitation biased low due to exceeded holding times (especially VOA results).

* 7 for water, 10 for soil

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Case: 3567

Contractor: PEDCO

PCB/PESTICIDE POSITIVE ID CONFIRMATION

D. GC/MS Confirmation

DFTPP run date/time: _____
Criteria met? Y N (Circle one)

If DFTPP not met, confirmation invalid, samples should be reinjected after GC/MS tuned. Affected samples: _____

_____

_____

ASSESSMENT OF POSITIVE HITS:

SMO#	Compound	Reviewer Assessment*

*Agree, or disagree and reason, crossout false positives on OADS

Comments on PCB/Pesticide Data Quality:

_____

_____

_____

_____

_____

RECEIVED JAN 17 1986

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

014

SAMPLE NUMBER
EA603

85M04563

1

ORGANICS ANALYSIS DATA SHEET
PAGE 1

LABORATORY NAME: PEI ASSOCIATES INC
LAB SAMPLE ID NO----------DX219
SAMPLE MATRIX----------WATER
DATA RELEASE AUTHORIZED:

CASE NO:---------- 3567
QC REPORT NO:----------
CONTRACT NO:-------68-01- 9015
DATE SAMPLE RECEIVED-----11/20/84

VOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/26/84
DATE ANALYZED----------11/26/84
CONC/DIL FACTOR---------- .2
PH---------- 6
PERCENT MOISTURE---------N/A
% MOISTURE (DECANTED)----

CAS NO.		UG/L	CAS NUMBER		UG/L
74-87-3	CHLOROMETHANE	10U	79-34-5	1,1,2,2-TETRACHLOROETHANE	5U
74-83-9	BROMOMETHANE	10U	78-87-5	1,2-DICHLOROPROPANE	5U
75-01-4	VINYL CHLORIDE	10U	10061-02-6	TRANS-1,3-DICHLOROPROPANE	5U
75-00-3	CHLOROETHANE	10U	79-01-6	TRICHLOROETHENE	5U
75-09-2	METHYLENE CHLORIDE	37.4B	124-48-1	DIBROMOCHLOROMETHANE	5U
67-64-1	ACETONE	77.4B	79-00-5	1,1,2-TRICHLOROETHANE	5U
75-15-0	CARBON DISULFIDE	5U	71-43-2	BENZENE	5U
75-35-4	1,1-DICHLOROETHENE	5U	10061-05-5	CIS-1,3-DICHLOROPROPANE	5U
75-34-3	1,1-DICHLOROETHANE	5U	110-75-8	2-CHLOROETHYLVINYLETHER	10U
156-60-5	TRANS-1,2-DICHLOROETHENE	5U	75-25-2	BROMOFORM	5U
67-66-3	CHLOROFORM	5U	591-78-6	2-HEXANONE	10U
107-06-2	1,2-DICHLOROETHANE	5U	108-10-1	4-METHYL-2-PENTANONE	10U
78-93-3	2-BUTANONE	10U	127-18-4	TETRACHLOROETHENE	5U
71-55-6	1,1,1-TRICHLOROETHANE	5U	108-88-3	TOLUENE	5U
56-23-5	CARBON TETRACHLORIDE	5U	108-90-7	CHLOROBENZENE	5U
108-05-4	VINYL ACETATE	10U	100-41-4	ETHYLBENZENE	5U
75-27-4	BROMODICHLOROMETHANE	5U	100-42-5	STYRENE	5U
				TOTAL XYLENES	5U

DATA REPORT QUALIFIERS

VALUE IF THE VALUE IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT, REPORT THE VALUE

U COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED REPORT THE MINIMUM DETECTION LIMIT WITH THE U

J INDICATES AN ESTIMATED VALUE

K INDICATES THE COMPOUND WAS DETECTED, HOWEVER, THE VALUE WAS BELOW THE DETECTION LIMIT FOR THE COMPOUND

C PRESENCE CONFIRMED BY GC/MS PESTICIDES ONLY

B ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

015

SAMPLE NUMBER
EA603

85MC04563

1

ORGANICS ANALYSIS DATA SHEET
PAGE 2

SEMIVOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/21/84
CONC/DIL FACTOR---------- 500

CAS NO.		UG/L
62-75-9	N-NITROSODIMETHYL AMINE--	10U
108-95-2	PHENOL----------	10U
62-53-3	ANILINE----------	10U
111-44-4	BIS(2-CHLOROETHYL)ETHER--	10U
95-57-8	2-CHLOROPHENOL----------	10U
541-73-1	1,3-DICHLOROBENZENE------	10U
106-46-7	1,4-DICHLOROBENZENE------	10U
100-51-6	BENZYL ALCOHOL----------	10U
95-50-1	1,2-DICHLOROBENZENE------	10U
95-48-7	2-METHYL PHENOL----------	10U
36938-32-9	BIS(2CHLOROISOPROPYLETHER	10U
106-44-5	4-METHYL PHENOL----------	10U
621-64-7	NNITROSODIPROPYL AMINE---	10U
67-72-1	HEXACHLOROETHANE---------	10U
98-95-3	NITROBENZENE----------	10U
78-59-1	ISOPHORONE----------	10U
88-75-5	2-NITROPHENOL----------	10U
105-67-9	2,4-DIMETHYL PHENOL------	10U
65-85-0	BENZOIC ACID----------	50U
111-91-1	BIS2CHLORETHOXY METHANE--	10U
120-83-2	2,4-DICHLOROPHENOL-------	10U
120-82-1	1,2,4-TRICHLOROBENZENE---	10U
91-20-3	NAPTHALENE----------	10U
106-47-8	4-CHLOROANILINE----------	10U
87-68-3	HEXACHLOROBUTADIENE------	10U
59-50-7	4-CHLORO-3-METHYL PHENOL-	10U
91-57-6	2-METHYLNAPTHALENE-------	10U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10U
88-06-2	2,4,6-TRICHLOROPNENOL----	10U
95-95-4	2,4,5-TRICHLOROPHENOL----	50U
91-58-7	2-CHLORONAPTHALENE-------	10U
88-74-4	2-NITROANILINE----------	50U
131-11-3	DIMETHYL PHTHALATE-------	10U
208-96-8	ACENAPHTHYLENE----------	10U
99-09-2	3-NITROANILINE----------	50U

CAS NO.		UG/L
83-32-9	ACENAPTHENE----------	10U
51-28-5	2,4-DINITROPHENOL--------	50U
100-02-7	4-NITROPHENOL----------	50U
132-64-9	DIBENZOFURAN----------	10U
121-14-2	2,4-DINITROTOLUENE-------	10U
606-20-2	2,6-DINITROTOLUENE-------	10U
84-66-2	DIETHYLPHTHALATE---------	10U
7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
86-73-7	FLUORENE----------	10U
100-01-6	4-NITROANILINE----------	50U
534-52-1	4,6DINITRO2METHYLPHENOL--	50U
86-30-6	N-NITROSODIPHENYLAMINE(1)	10U
101-55-3	4BROMPHENYLPHENYLETHER---	10U
118-74-1	HEXACHLOROBENZENE--------	10U
87-86-5	PENTACHLOROPHENOL--------	50U
85-01-8	PHENANTHRENE----------	10U
120-12-7	ANTHRACENE----------	10U
84-74-2	DI-N-BUTYLPHTHALATE------	8.6K
206-44-0	FLUORANTHENE----------	10U
92-87-5	BENZIDINE----------	10U
129-00-0	PYRENE----------	10U
85-68-7	BUTYLBENZYLPHTHALATE-----	10U
91-94-1	3,3'-DICHLOROBENZIDINE---	20U
56-55-3	BENZO(A)ANTHRACENE-------	10U
117-81-7	BIS(2ETHYLHEXYL)PHTHALATE	57.2
218-01-9	CHRYSENE----------	10U
117-84-0	DI-N-OCTYL PHTHALATE-----	4K
205-99-2	BENZO(B)FLUORANTHENE-----	10U
207-08-9	BENZO(K)FLUORANTHENE-----	10U
50-32-8	BENZO(A)PYRENE----------	10U
193-39-5	INDENO(123-CD)PYRENE-----	10U
53-70-3	DIBENZ(GHI)PERYLENE------	10U
191-24-2	BENZO(GHI)PERYLENE-------	10U

(1) CANNOT BE SEPARATED FROM DIPHENYAMINE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

016

SAMPLE NUMBER
EA603

1

ORGANICS ANALYSIS DATA SHEET
PAGE 3

PESTICIDE/PCB'S

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/13/84
CONC/DIL FACTOR---------- 210

CAS NO.		UG/L
319-84-6	ALPHA-BHC	1.05U
319-85-7	BETA-BHC	1.05U
319-86-8	DELTA-BHC	1.05U
58-89-9	GAMMA-BHC(LINDANE)-------	1.05U
76-44-8	HEPTACHLOR----------	1.05U
309-00-2	ALDRIN----------	1.05U
1024-57-3	HEPTACHLOR EPOXIDE-------	1.05U
959-98-8	ENDOSULFAN I----------	1.05U
60-57-1	DIELDRIN----------	2.1U
72-55-9	4,4'-DDE----------	2.1U
72-20-8	ENDRIN----------	2.1U
33213-65-9	ENDOSULFAN II----------	2.1U
72-54-8	4,4'-DDD	2.1U
7421-93-4	ENDRIN ALDEHYDE----------	2.1U
1031-07-8	ENDOSULFAN SULFATE-------	2.1U
50-29-3	4,4'-DDT	2.1U
72-43-5	METHOXYCHLOR----------	2.76
53494-70-5	ENDRIN KETONE----------	2.1U
57-74-9	CHLORDANE----------	10.5U
8001-35-2	TOXAPHENE----------	21U
12674-11-2	AROCHLOR-1016----------	10.5U
11104-28-2	AROCHLOR-1221----------	10.5U
11141-16-5	AROCHLOR-1232----------	10.5U
53469-21-9	AROCHLOR-1242----------	10.5U
12672-29-6	AROCHLOR-1248----------	10.5U
11097-69-1	AROCHLOR-1254----------	21U
11096-82-5	AROCHLOR-1260----------	21U

VI=VOLUME OF EXTRACT INJECTED------	5UL
VS=VOLUME OF WATER EXTRACTED-------	1000ML
WS=WEIGHT OF SAMPLE EXTRACTED------	G
VT=VOLUME OF TOTAL EXTRACT---------	10000UL

RECEIVED JAN 17 1985

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
EA603

017

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.	SILANE	BNA	1043	35
4.				
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RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

043

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 1

85MC04R08

LABORATORY NAME: PEI ASSOCIATES INC
LAB SAMPLE ID NO---------DX220
SAMPLE MATRIX----------WATER
DATA RELEASE AUTHORIZED:

CASE NO:----------3567
QC REPORT NO:----------
CONTRACT NO:-------68-01- 7015
DATE SAMPLE RECEIVED-----11/20/84

VOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/26/84
DATE ANALYZED----------11/26/84
CONC/DIL FACTOR---------- .2
PH---------- 6
PERCENT MOISTURE---------N/A
% MOISTURE (DECANTED)----

CAS NO.		UG/L	CAS NUMBER		UG/L
74-87-3	CHLOROMETHANE	10U	79-34-5	1,1,2,2-TETRACHLOROETHANE	5U
74-83-9	BROMOMETHANE	10U	78-87-5	1,2-DICHLOROPROPANE	5U
75-01-4	VINYL CHLORIDE	10U	10061-02-6	TRANS-1,3-DICHLOROPROPANE	5U
75-00-3	CHLOROETHANE	10U	79-01-6	TRICHLOROETHENE	5U
75-09-2	METHYLENE CHLORIDE	36.1B	124-48-1	DIBROMOCHLOROMETHANE	5U
67-64-1	ACETONE	149B	79-00-5	1,1,2-TRICHLOROETHANE	5U
75-15-0	CARBON DISULFIDE	5U	71-43-2	BENZENE	5U
75-35-4	1,1-DICHLOROETHENE	5U	10061-05-5	CIS-1,3-DICHLOROPROPANE	5U
75-34-3	1,1-DICHLOROETHANE	5U	110-75-8	2-CHLOROETHYLVINYLETHER	10U
156-60-5	TRANS-1,2-DICHLOROETHENE	5U	75-25-2	BROMOFORM	5U
67-66-3	CHLOROFORM	5U	591-78-6	2-HEXANONE	10U
107-06-2	1,2-DICHLOROETHANE	5U	108-10-1	4-METHYL-2-PENTANONE	10U
78-93-3	2-BUTANONE	10U	127-18-4	TETRACHLOROETHENE	5U
71-55-6	1,1,1-TRICHLOROETHANE	5U	108-88-3	TOLUENE	5U
56-23-5	CARBON TETRACHLORIDE	5U	108-90-7	CHLOROBENZENE	5U
108-05-4	VINYL ACETATE	10U	100-41-4	ETHYLBENZENE	5U
75-27-4	BROMODICHLOROMETHANE	5U	100-42-5	STYRENE	5U
				TOTAL XYLENES	5U

DATA REPORT QUALIFIERS

VALUE IF THE VALUE IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT, REPORT THE VALUE

U COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED REPORT THE MINIMUM DETECTION LIMIT WITH THE U

J INDICATES AN ESTIMATED VALUE

K INDICATES THE COMPOUND WAS DETECTED, HOWEVER, THE VALUE WAS BELOW THE DETECTION LIMIT FOR THE COMPOUND

C PRESENCE CONFIRMED BY GC/MS PESTICIDES ONLY

B ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 2

SEMIVOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12.21/84
CONC/DIL FACTOR---------- 500

CAS NO.		UG/L	CAS NO.		UG/L
62-75-9	N-NITROSODIMETHYL AMINE--	10U	83-32-9	ACENAPTHENE----------	10U
108-95-2	PHENOL----------	10U	51-28-5	2,4-DINITROPHENOL--------	50U
62-53-3	ANILINE----------	10U	100-02-7	4-NITROPHENOL----------	50U
111-44-4	BIS(2-CHLOROETHYL)ETHER--	10U	132-64-9	DIBENZOFURAN----------	10U
95-57-8	2-CHLOROPHENOL----------	10U	121-14-2	2,4-DINITROTOLUENE-------	10U
541-73-1	1,3-DICHLOROBENZENE------	10U	606-20-2	2,6-DINITROTOLUENE-------	10U
106-46-7	1,4-DICHLOROBENZENE------	10U	84-66-2	DIETHYLPHTHALATE---------	10U
100-51-6	BENZYL ALCOHOL----------	10U	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
95-50-1	1,2-DICHLOROBENZENE------	10U	86-73-7	FLUORENE----------	10U
95-48-7	2-METHYL PHENOL----------	10U	100-01-6	4-NITROANILINE----------	50U
36938-32-9	BIS(2CHLOROISOPROPYLETHER	10U	534-52-1	4,6DINITRO2METHYLPHENOL--	50U
106-44-5	4-METHYL PHENOL----------	10U	86-30-6	N-NITROSODIPHENYLAMINE(1)	10U
621-64-7	NNITROSODIPROPYL AMINE---	10U	101-55-3	4BROMPHENYLPHENYLETHER---	10U
67-72-1	HEXACHLOROETHANE---------	10U	118-74-1	HEXACHLOROBENZENE--------	10U
98-95-3	NITROBENZENE----------	10U	87-86-5	PENTACHLOROPHENOL--------	50U
78-59-1	ISOPHORONE----------	10U	85-01-8	PHENANTHRENE----------	10U
88-75-5	2-NITROPHENOL----------	10U	120-12-7	ANTHRACENE----------	10U
105-67-9	2,4-DIMETHYL PHENOL------	10U	84-74-2	DI-N-BUTYLPHTHALATE------	10U
65-85-0	BENZOIC ACID----------	50U	206-44-0	FLUORANTHENE----------	10U
111-91-1	BIS2CHLORETHOXY METHANE--	10U	92-87-5	BENZIDINE----------	10U
120-83-2	2,4-DICHLOROPHENOL-------	10U	129-00-0	PYRENE----------	10U
120-82-1	1,2,4-TRICHLOROBENZENE---	10U	85-68-7	BUTYLBENZYLPHTHALATE-----	10U
91-20-3	NAPTHALENE----------	10U	91-94-1	3,3'-DICHLOROBENZIDINE---	20U
106-47-8	4-CHLOROANILINE----------	10U	56-55-3	BENZO(A)ANTHRACENE-------	10U
87-68-3	HEXACHLOROBUTADIENE------	10U	117-81-7	BIS(2ETHYLHEXYL)PHTHALATE	10U
59-50-7	4-CHLORO-3-METHYL PHENOL-	10U	218-01-9	CHRYSENE----------	10U
91-57-6	2-METHYLNAPTHALENE-------	10U	117-84-0	DI-N-OCTYL PHTHALATE-----	10U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10U	205-99-2	BENZO(B)FLUORANTHENE-----	10U
88-06-2	2,4,6-TRICHLOROPNENOL----	10U	207-08-9	BENZO(K)FLUORANTHENE-----	10U
95-95-4	2,4,5-TRICHLOROPHENOL----	50U	50-32-8	BENZO(A)PYRENE----------	10U
91-58-7	2-CHLORONAPTHALENE-------	10U	193-39-5	INDENO(123-CD)PYRENE-----	10U
88-74-4	2-NITROANILINE----------	50U	53-70-3	DIBENZ(GHI)PERYLENE------	10U
131-11-3	DIMETHYL PHTHALATE-------	10U	191-24-2	BENZO(GHI)PERYLENE-------	10U
208-96-8	ACENAPHTHYLENE----------	10U			
99-09-2	3-NITROANILINE----------	50U			

(1) CANNOT BE SEPARATED FROM DIPHENYAMINE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 3

PESTICIDE/PCB'S

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/13/84
CONC/DIL FACTOR---------- 10

CAS NO.		UG/L
319-84-6	ALPHA-BHC	.05U
319-85-7	BETA-BHC	.05U
319-86-8	DELTA-BHC	.05U
58-89-9	GAMMA-BHC(LINDANE)-------	.05U
76-44-8	HEPTACHLOR----------	.05U
309-00-2	ALDRIN----------	.05U
1024-57-3	HEPTACHLOR EPOXIDE-------	.05U
959-98-8	ENDOSULFAN I----------	.05U
60-57-1	DIELDRIN----------	.1U
72-55-9	4,4'-DDE----------	.1U
72-20-8	ENDRIN----------	.1U
33213-65-9	ENDOSULFAN II----------	.1U
72-54-8	4,4'-DDD	.1U
7421-93-4	ENDRIN ALDEHYDE----------	.1U
1031-07-8	ENDOSULFAN SULFATE-------	.1U
50-29-3	4,4'-DDT	.1U
72-43-5	METHOXYCHLOR----------	.5U
53494-70-5	ENDRIN KETONE----------	.1U
57-74-9	CHLORDANE----------	.5U
8001-35-2	TOXAPHENE----------	1U
12674-11-2	AROCHLOR-1016----------	.5U
11104-28-2	AROCHLOR-1221----------	.5U
11141-16-5	AROCHLOR-1232----------	.5U
53469-21-9	AROCHLOR-1242----------	.5U
12672-29-6	AROCHLOR-1248----------	.5U
11097-69-1	AROCHLOR-1254----------	1U
11096-82-5	AROCHLOR-1260----------	1U

VI=VOLUME OF EXTRACT INJECTED------ 5UL
VS=VOLUME OF WATER EXTRACTED------- 1000ML
WS=WEIGHT OF SAMPLE EXTRACTED------ G
VT=VOLUME OF TOTAL EXTRACT--------- 10000UL

RECEIVED JAN 17 1985

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
EA604

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.	NONE	BNA		
4.				
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RECEIVED JAN 17 1985

Ref # 19 #3

ecology and environment, inc.

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

International Specialists in the Environmental Sciences

Date Received for Review: 1/17/85 Date Review Completed: 1/18/85

To: Dan Cozza

From: Cynthia Bachunas

Subject: Sexton Matteson IL CASE 3567
RS-8303-IF

Sample Description: low waters organics

Project Data Status: Awaiting Inorganics

FIT Data Review Findings:
Methylene chloride, acetone + phtalates should not be used

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/15/85

RECEIVED JAN 17 1985

SUBJECT: Review of Region V CLP Data
Received for Review on 12/31/84

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

TO: Data User: FIT

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

SITE NAME: Sexton Matteson SMO Case No. 3567

EPA Data Set No. SF865 No. of Samples: 2 D.U./Activity Numbers Y905 IC48500

CRL No. 85MC04563 to 85MC04R08

SMO Traffic No. EA603 to EA604

CLP Laboratory: Pedco Hrs. Required for Review: 4

Following are our findings.

Precision meets QC standards for VOA, Acid, B/N + pesticides
Accuracy " " " " " " "
Accuracy bias Low for pesticides
methylene chloride was greater than 5 times the CRDL in the 11/27/84 blank.

Very poor chromatograms!

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above. R.H. 1-15-84
( ) 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)

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

RECEIVED JAN 17 1985

CRL Data Set No. SF 865 ERRIS No. _____

SMO Case No. 3567 Site Name: Sexton Matteson

Name of Laboratory: Pedco Data User: FIT

No. of Samples: 2 Date Samples Received: 12/31/84

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ___ NO ✓
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 2 Number of samples received: 2
7. Checked by: Marsha Phillips Date: 12/31/84
8. Received by Contract Project Management Section: T Thomas Date: 1/14/85
9. Review Started: _____ Reviewer Signature: _____
10. Total time spent on review: _____ Date review completed: _____
11. Copied (xeroxed) by: _____ Date: _____
12. Transmitted by: _____ Date: _____
13. Mailed to Data User by: _____ Date: _____
14. REMARKS:

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

014

SAMPLE NUMBER EA603

6403
85MC04563

1

ORGANICS ANALYSIS DATA SHEET
PAGE 1

LABORATORY NAME: PEI ASSOCIATES INC
LAB SAMPLE ID NO---------DX219
SAMPLE MATRIX----------WATER
DATA RELEASE AUTHORIZED:

CASE NO:----------3567
QC REPORT NO:----------
CONTRACT NO:-------68-01-7015
DATE SAMPLE RECEIVED-----11/20/84

VOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/26/84
DATE ANALYZED----------11/26/84
CONC/DIL FACTOR---------- .2
PH---------- 6
PERCENT MOISTURE---------N/A
% MOISTURE (DECANTED)----

CAS NO.		UG/L	CAS NUMBER		UG/L
74-87-3	CHLOROMETHANE	10U	79-34-5	1,1,2,2-TETRACHLOROETHANE	5U
74-83-9	BROMOMETHANE	10U	78-87-5	1,2-DICHLOROPROPANE	5U
75-01-4	VINYL CHLORIDE	10U	10061-02-6	TRANS-1,3-DICHLOROPROPANE	5U
75-00-3	CHLOROETHANE	10U	79-01-6	TRICHLOROETHENE	5U
75-09-2	METHYLENE CHLORIDE	37.4B	124-48-1	DIBROMOCHLOROMETHANE	5U
67-64-1	ACETONE	77.4B	79-00-5	1,1,2-TRICHLOROETHANE	5U
75-15-0	CARBON DISULFIDE	5U	71-43-2	BENZENE	5U
75-35-4	1,1-DICHLOROETHENE	5U	10061-05-5	CIS-1,3-DICHLOROPROPANE	5U
75-34-3	1,1-DICHLOROETHANE	5U	110-75-8	2-CHLOROETHYLVINYLETHER	10U
156-60-5	TRANS-1,2-DICHLOROETHENE	5U	75-25-2	BROMOFORM	5U
67-66-3	CHLOROFORM	5U	591-78-6	2-HEXANONE	10U
107-06-2	1,2-DICHLOROETHANE	5U	108-10-1	4-METHYL-2-PENTANONE	10U
78-93-3	2-BUTANONE	10U	127-18-4	TETRACHLOROETHENE	5U
71-55-6	1,1,1-TRICHLOROETHANE	5U	108-88-3	TOLUENE	5U
56-23-5	CARBON TETRACHLORIDE	5U	108-90-7	CHLOROBENZENE	5U
108-05-4	VINYL ACETATE	10U	100-41-4	ETHYLBENZENE	5U
75-27-4	BROMODICHLOROMETHANE	5U	100-42-5	STYRENE	5U
				TOTAL XYLENES	5U

DATA REPORT QUALIFIERS

VALUE IF THE VALUE IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT, REPORT THE VALUE

U COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED REPORT THE MINIMUM DETECTION LIMIT WITH THE U

J INDICATES AN ESTIMATED VALUE

K INDICATES THE COMPOUND WAS DETECTED, HOWEVER, THE VALUE WAS BELOW THE DETECTION LIMIT FOR THE COMPOUND

C PRESENCE CONFIRMED BY GC/MS PESTICIDES ONLY

B ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

015

SAMPLE NUMBER EA603

85MC04563

1

ORGANICS ANALYSIS DATA SHEET
PAGE 2

SEMIVOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/21/84
CONC/DIL FACTOR---------- 500

CAS NO.		UG/L	CAS NO.		UG/L
62-75-9	N-NITROSODIMETHYL AMINE--	10U	83-32-9	ACENAPTHENE----------	10U
108-95-2	PHENOL----------	10U	51-28-5	2,4-DINITROPHENOL--------	50U
62-53-3	ANILINE----------	10U	100-02-7	4-NITROPHENOL----------	50U
111-44-4	BIS(2-CHLOROETHYL)ETHER--	10U	132-64-9	DIBENZOFURAN----------	10U
95-57-8	2-CHLOROPHENOL----------	10U	121-14-2	2,4-DINITROTOLUENE-------	10U
541-73-1	1,3-DICHLOROBENZENE------	10U	606-20-2	2,6-DINITROTOLUENE-------	10U
106-46-7	1,4-DICHLOROBENZENE------	10U	84-66-2	DIETHYLPHTHALATE---------	10U
100-51-6	BENZYL ALCOHOL----------	10U	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
95-50-1	1,2-DICHLOROBENZENE------	10U	86-73-7	FLUORENE----------	10U
95-48-7	2-METHYL PHENOL----------	10U	100-01-6	4-NITROANILINE----------	50U
36938-32-9	BIS(2CHLOROISOPROPYLETHER	10U	534-52-1	4,6DINITRO2METHYLPHENOL--	50U
106-44-5	4-METHYL PHENOL----------	10U	86-30-6	N-NITROSODIPHENYLAMINE(1)	10U
621-64-7	NNITROSODIPROPYL AMINE---	10U	101-55-3	4BROMPHENYLPHENYLETHER---	10U
67-72-1	HEXACHLOROETHANE---------	10U	118-74-1	HEXACHLOROBENZENE--------	10U
98-95-3	NITROBENZENE----------	10U	87-86-5	PENTACHLOROPHENOL--------	50U
78-59-1	ISOPHORONE----------	10U	85-01-8	PHENANTHRENE----------	10U
88-75-5	2-NITROPHENOL----------	10U	120-12-7	ANTHRACENE----------	10U
105-67-9	2,4-DIMETHYL PHENOL------	10U	84-74-2	DI-N-BUTYLPHTHALATE------	8.6K
65-85-0	BENZOIC ACID----------	50U	206-44-0	FLUORANTHENE----------	10U
111-91-1	BIS2CHLORETHOXY METHANE--	10U	92-87-5	BENZIDINE----------	10U
120-83-2	2,4-DICHLOROPHENOL-------	10U	129-00-0	PYRENE----------	10U
120-82-1	1,2,4-TRICHLOROBENZENE---	10U	85-68-7	BUTYLBENZYLPHTHALATE-----	10U
91-20-3	NAPTHALENE----------	10U	91-94-1	3,3'-DICHLOROBENZIDINE---	20U
106-47-8	4-CHLOROANILINE----------	10U	56-55-3	BENZO(A)ANTHRACENE-------	10U
87-68-3	HEXACHLOROBUTADIENE------	10U	117-81-7	BIS(2ETHYLHEXYL)PHTHALATE	57.2
59-50-7	4-CHLORO-3-METHYL PHENOL-	10U	218-01-9	CHRYSENE----------	10U
91-57-6	2-METHYLNAPTHALENE-------	10U	117-84-0	DI-N-OCTYL PHTHALATE-----	4K
77-47-4	HEXACHLOROCYCLOPENTADIENE	10U	205-99-2	BENZO(B)FLUORANTHENE-----	10U
88-06-2	2,4,6-TRICHLOROPNENOL----	10U	207-08-9	BENZO(K)FLUORANTHENE-----	10U
95-95-4	2,4,5-TRICHLOROPHENOL----	50U	50-32-8	BENZO(A)PYRENE----------	10U
91-58-7	2-CHLORONAPTHALENE-------	10U	193-39-5	INDENO(123-CD)PYRENE-----	10U
88-74-4	2-NITROANILINE----------	50U	53-70-3	DIBENZ(GHI)PERYLENE------	10U
131-11-3	DIMETHYL PHTHALATE-------	10U	191-24-2	BENZO(GHI)PERYLENE-------	10U
208-96-8	ACENAPHTHYLENE----------	10U			
99-09-2	3-NITROANILINE----------	50U			

(1) CANNOT BE SEPARATED FROM DIPHENYAMINE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

016

SAMPLE NUMBER
EA603

1

ORGANICS ANALYSIS DATA SHEET
PAGE 3

PESTICIDE/PCB'S

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/13/84
CONC/DIL FACTOR---------- 210

CAS NO.		UG/L
319-84-6	ALPHA-BHC	1.05U
319-85-7	BETA-BHC	1.05U
319-86-8	DELTA-BHC	1.05U
58-89-9	GAMMA-BHC(LINDANE)-------	1.05U
76-44-8	HEPTACHLOR----------	1.05U
309-00-2	ALDRIN----------	1.05U
1024-57-3	HEPTACHLOR EPOXIDE-------	1.05U
959-98-8	ENDOSULFAN I----------	1.05U
60-57-1	DIELDRIN----------	2.1U
72-55-9	4,4'-DDE----------	2.1U
72-20-8	ENDRIN----------	2.1U
33213-65-9	ENDOSULFAN II----------	2.1U
72-54-8	4,4'-DDD	2.1U
7421-93-4	ENDRIN ALDEHYDE----------	2.1U
1031-07-8	ENDOSULFAN SULFATE-------	2.1U
50-29-3	4,4'-DDT	0.1 2.1U
72-43-5	METHOXYCHLOR----------	0.5 2.76
53494-70-5	ENDRIN KETONE----------	2.1U
57-74-9	CHLORDANE----------	10.5U
8001-35-2	TOXAPHENE----------	21U
12674-11-2	AROCHLOR-1016----------	10.5U
11104-28-2	AROCHLOR-1221----------	10.5U
11141-16-5	AROCHLOR-1232----------	10.5U
53469-21-9	AROCHLOR-1242----------	10.5U
12672-29-6	AROCHLOR-1248----------	10.5U
11097-69-1	AROCHLOR-1254----------	21U
11096-82-5	AROCHLOR-1260----------	21U

DL=10.5

VI=VOLUME OF EXTRACT INJECTED------ 5UL
VS=VOLUME OF WATER EXTRACTED------- 1000ML
WS=WEIGHT OF SAMPLE EXTRACTED------ G
VT=VOLUME OF TOTAL EXTRACT--------- 10000UL

RECEIVED JAN 17 1985

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EA603

017

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.	SILANE	BNA	1043	35
4.				
5.				
6.				
7.				
8.				
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30.				

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

C43

SAMPLE NUMBER
EA604
Blank
85MC04R08

1

ORGANICS ANALYSIS DATA SHEET
PAGE 1

LABORATORY NAME: PEI ASSOCIATES INC
LAB SAMPLE ID NO---------DX220
SAMPLE MATRIX----------WATER
DATA RELEASE AUTHORIZED:

CASE NO:---------- 3567
QC REPORT NO:----------
CONTRACT NO:-------68-01- 7015
DATE SAMPLE RECEIVED-----11/20/84

VOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/26/84
DATE ANALYZED----------11/26/84
CONC/DIL FACTOR---------- .2
PH---------- 6
PERCENT MOISTURE---------N/A
% MOISTURE (DECANTED)----

CAS NO.		UG/L	CAS NUMBER		UG/L
74-87-3	CHLOROMETHANE	10U	79-34-5	1,1,2,2-TETRACHLOROETHANE	5U
74-83-9	BROMOMETHANE	10U	78-87-5	1,2-DICHLOROPROPANE	5U
75-01-4	VINYL CHLORIDE	10U	10061-02-6	TRANS-1,3-DICHLOROPROPANE	5U
75-00-3	CHLOROETHANE	10U	79-01-6	TRICHLOROETHENE	5U
75-09-2	METHYLENE CHLORIDE	36.1B	124-48-1	DIBROMOCHLOROMETHANE	5U
67-64-1	ACETONE	149B	79-00-5	1,1,2-TRICHLOROETHANE	5U
75-15-0	CARBON DISULFIDE	5U	71-43-2	BENZENE	5U
75-35-4	1,1-DICHLOROETHENE	5U	10061-05-5	CIS-1,3-DICHLOROPROPANE	5U
75-34-3	1,1-DICHLOROETHANE	5U	110-75-8	2-CHLOROETHYLVINYLETHER	10U
156-60-5	TRANS-1,2-DICHLOROETHENE	5U	75-25-2	BROMOFORM	5U
67-66-3	CHLOROFORM	5U	591-78-6	2-HEXANONE	10U
107-06-2	1,2-DICHLOROETHANE	5U	108-10-1	4-METHYL-2-PENTANONE	10U
78-93-3	2-BUTANONE	10U	127-18-4	TETRACHLOROETHENE	5U
71-55-6	1,1,1-TRICHLOROETHANE	5U	108-88-3	TOLUENE	5U
56-23-5	CARBON TETRACHLORIDE	5U	108-90-7	CHLOROBENZENE	5U
108-05-4	VINYL ACETATE	10U	100-41-4	ETHYLBENZENE	5U
75-27-4	BROMODICHLOROMETHANE	5U	100-42-5	STYRENE	5U
				TOTAL XYLENES	5U

DATA REPORT QUALIFIERS

VALUE IF THE VALUE IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT, REPORT THE VALUE

U COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED REPORT THE MINIMUM DETECTION LIMIT WITH THE U

J INDICATES AN ESTIMATED VALUE

K INDICATES THE COMPOUND WAS DETECTED, HOWEVER, THE VALUE WAS BELOW THE DETECTION LIMIT FOR THE COMPOUND

C PRESENCE CONFIRMED BY GC/MS PESTICIDES ONLY

B ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 2

SEMIVOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12.21/84
CONC/DIL FACTOR---------- 500

CAS NO.		UG/L	CAS NO.		UG/L
62-75-9	N-NITROSODIMETHYL AMINE--	10U	83-32-9	ACENAPTHENE----------	10U
108-95-2	PHENOL----------	10U	51-28-5	2,4-DINITROPHENOL--------	50U
62-53-3	ANILINE----------	10U	100-02-7	4-NITROPHENOL----------	50U
111-44-4	BIS(2-CHLOROETHYL)ETHER--	10U	132-64-9	DIBENZOFURAN----------	10U
95-57-8	2-CHLOROPHENOL----------	10U	121-14-2	2,4-DINITROTOLUENE-------	10U
541-73-1	1,3-DICHLOROBENZENE------	10U	606-20-2	2,6-DINITROTOLUENE-------	10U
106-46-7	1,4-DICHLOROBENZENE------	10U	84-66-2	DIETHYLPHTHALATE---------	10U
100-51-6	BENZYL ALCOHOL----------	10U	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
95-50-1	1,2-DICHLOROBENZENE------	10U	86-73-7	FLUORENE----------	10U
95-48-7	2-METHYL PHENOL----------	10U	100-01-6	4-NITROANILINE----------	50U
36938-32-9	BIS(2CHLOROISOPROPYLETHER	10U	534-52-1	4,6DINITRO2METHYLPHENOL--	50U
106-44-5	4-METHYL PHENOL----------	10U	86-30-6	N-NITROSODIPHENYLAMINE(1)	10U
621-64-7	NNITROSODIPROPYL AMINE---	10U	101-55-3	4BROMPHENYLPHENYLETHER---	10U
67-72-1	HEXACHLOROETHANE---------	10U	118-74-1	HEXACHLOROBENZENE--------	10U
98-95-3	NITROBENZENE----------	10U	87-86-5	PENTACHLOROPHENOL--------	50U
78-59-1	ISOPHORONE----------	10U	85-01-8	PHENANTHRENE----------	10U
88-75-5	2-NITROPHENOL----------	10U	120-12-7	ANTHRACENE----------	10U
105-67-9	2,4-DIMETHYL PHENOL------	10U	84-74-2	DI-N-BUTYLPHTHALATE------	10U
65-85-0	BENZOIC ACID----------	50U	206-44-0	FLUORANTHENE----------	10U
111-91-1	BIS2CHLORETHOXY METHANE--	10U	92-87-5	BENZIDINE----------	10U
120-83-2	2,4-DICHLOROPHENOL-------	10U	129-00-0	PYRENE----------	10U
120-82-1	1,2,4-TRICHLOROBENZENE---	10U	85-68-7	BUTYLBENZYLPHTHALATE-----	10U
91-20-3	NAPTHALENE----------	10U	91-94-1	3,3'-DICHLOROBENZIDINE---	20U
106-47-8	4-CHLOROANILINE----------	10U	56-55-3	BENZO(A)ANTHRACENE-------	10U
87-68-3	HEXACHLOROBUTADIENE------	10U	117-81-7	BIS(2ETHYLHEXYL)PHTHALATE	10U
59-50-7	4-CHLORO-3-METHYL PHENOL-	10U	218-01-9	CHRYSENE----------	10U
91-57-6	2-METHYLNAPTHALENE-------	10U	117-84-0	DI-N-OCTYL PHTHALATE-----	10U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10U	205-99-2	BENZO(B)FLUORANTHENE-----	10U
88-06-2	2,4,6-TRICHLOROPNENOL----	10U	207-08-9	BENZO(K)FLUORANTHENE-----	10U
95-95-4	2,4,5-TRICHLOROPHENOL----	50U	50-32-8	BENZO(A)PYRENE----------	10U
91-58-7	2-CHLORONAPTHALENE-------	10U	193-39-5	INDENO(123-CD)PYRENE-----	10U
88-74-4	2-NITROANILINE----------	50U	53-70-3	DIBENZ(GHI)PERYLENE------	10U
131-11-3	DIMETHYL PHTHALATE-------	10U	191-24-2	BENZO(GHI)PERYLENE-------	10U
208-96-8	ACENAPHTHYLENE----------	10U			
99-09-2	3-NITROANILINE----------	50U			

(1) CANNOT BE SEPARATED FROM DIPHENYAMINE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 3

PESTICIDE/PCB'S

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/13/84
CONC/DIL FACTOR---------- 10

CAS NO.		UG/L
319-84-6	ALPHA-BHC	.05U
319-85-7	BETA-BHC	.05U
319-86-8	DELTA-BHC	.05U
58-89-9	GAMMA-BHC(LINDANE)-------	.05U
76-44-8	HEPTACHLOR----------	.05U
309-00-2	ALDRIN----------	.05U
1024-57-3	HEPTACHLOR EPOXIDE-------	.05U
959-98-8	ENDOSULFAN I----------	.05U
60-57-1	DIELDRIN----------	.1U
72-55-9	4,4'-DDE----------	.1U
72-20-8	ENDRIN----------	.1U
33213-65-9	ENDOSULFAN II----------	.1U
72-54-8	4,4'-DDD	.1U
7421-93-4	ENDRIN ALDEHYDE----------	.1U
1031-07-8	ENDOSULFAN SULFATE-------	.1U
50-29-3	4,4'-DDT	.1U
72-43-5	METHOXYCHLOR----------	.5U
53494-70-5	ENDRIN KETONE----------	.1U
57-74-9	CHLORDANE----------	.5U
8001-35-2	TOXAPHENE----------	1U
12674-11-2	AROCHLOR-1016----------	.5U
11104-28-2	AROCHLOR-1221----------	.5U
11141-16-5	AROCHLOR-1232----------	.5U
53469-21-9	AROCHLOR-1242----------	.5U
12672-29-6	AROCHLOR-1248----------	.5U
11097-69-1	AROCHLOR-1254----------	1U
11096-82-5	AROCHLOR-1260----------	1U

21
05
105

21
15
10,5

VI=VOLUME OF EXTRACT INJECTED------	5UL
VS=VOLUME OF WATER EXTRACTED-------	1000ML
WS=WEIGHT OF SAMPLE EXTRACTED------	G
VT=VOLUME OF TOTAL EXTRACT---------	10000UL

21
5
10,5

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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EA604

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.	NONE	BNA		
4.				
5.				
6.				
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REVIEW OF CLP ORGANIC DATA

Contractor: PEDCO

Case 3567

The data package for this case was reviewed by Region V CRL personnel in accordance with the "Standard Operating Procedure for Contract Laboratory Program (CLP) Data Review; August 1984". The quality of the data was assessed based on laboratory compliance with the contract and the data quality objectives as defined by the data user.

This review covers the following samples and parameters:

SMO#	CRL#	MATRIX	VOA	ABN	PEST
EA603	85M04563	WATER	✓	✓	✓
EA604	85M04R08	WATER	✓	✓	✓

DATA QUALITY OBJECTIVES AND REVIEW

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Case 3567

OSC or responsible party: FIT

Case Objective Level C

Data Quality Needs N/A

Precision: SEE Summary

Bias:

Obtain the information above directly from the OSC or designee before starting data review. Categorize review level into one of the following (circle one):

A. Enforcement: Case is already an enforcement action, data is sure to be used in court.

B. Assessment: Case already has preliminary data, level and degree of contamination or clean up action needs to be determined.

C. Screening: Case purpose is to determine what, if any, pollutants are at the site, followup sampling likely.

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REVIEW SUMMARY

Case 3567

	VOA	A	BN	PEST
Precision	3.0	1.6	11.1	14.0
Bias	-8	-55.3	-41.8	-60.5

Precision expressed as mean RPD between appropriate matrix spike duplicate compounds.

Bias expressed as mean percent of appropriate surrogate spike recoveries from 100%.

Data Quality Needs Met?: Data Quality C. were met

Action Items to Resolve Data Quality:

Item Description	Responsible Party	Completion Date

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DATA QUALIFIERS

Contractor: PEDCO

Case 3567

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

Precision meets QC standards for VOA, Acid, B/N + pesticides
Accuracy meets QC standards for VOA, Acid, B/N + pesticides
Accuracy bias low for pesticides
Methylene Chloride was greater than 5 times the CRDL in the 11/27/84 blank.

Reviewed by: Robert Hall

Phone: (312) 886-1970

Date: 1-15-85

DATA PACKAGE COMPLETENESS AUDIT

CASE: 3567

Check if present:

CONTRACTOR: PEDCO

DELIVERABLES INDEX WA B4A-266,267

☑ I. Case Narrative

The Case narrative must contain: Case number, Contract number, summary of any QC, sample, shipment and analytical problems, and documentation of all internal decision tree processes used.

II. QC Summary

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☑ A. Surrogate Percent Recovery Summary (Form II)

☑ B. Matrix Spike/Matrix Spike Duplicate Summary (Form III)

☑ C. Reagent Blank Summary (Form IV)
(If more than a single form is necessary, it must be arranged in chronological order.)

☑ D. GC/MS Tuning and Calibration Standard (Form V)

☑ 1. DFTPP in chronological order; by instrument.

☑ 2. BFB in chronological order; by instrument.

III. Sample Data Package

A. Sample data in increasing SMO Number order:

☑ 1. HSL Results - Organic Analysis Data Sheet (Form I)

☑ 2. GC/MS tentative ID (Form I, Part B) - Must be included even if no compounds are found; if so, indicate on form: "no volatile compounds found" and/or "no semi-volatile compounds found."

3. Raw data - in order: VOA, BNA, Pesticide

☑ a. Reconstructed ion chromatogram(s) (GC/MS), chromatogram(s) (GC)

b. Data System Printout

☑ • Quantitation report or legible facsimile (GC/MS)

☑ • Integration report or data system printout (GC)

☑ c. HSL spectra with lab generated standard (Dual Display)

• data systems incapable of dual display shall provide spectra in order:

CASE: 3567

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- raw HSL compound spectra
- enhanced or background subtracted spectra
- laboratory generated HSL standard

d. GC/MS library search spectra for Tentatively Identified Compound(s) (TIC)

e. Quantitation/Calculation of tentative ID concentration(s)

IV. Standards Data Package

A. Current list of laboratory calculated instrument detection limits for all HSL compounds.

B. Initial Calibration Data (Form VI) - in order: VOA, BNA; by instrument if more than one instrument used.

1. When more than one initial calibration is performed, the data must be put in chronological order. All initial calibration data must be included even for a specific Case.

C. Continuing Calibration (Form VII) - in order: VOA, BNA; by instrument if more than one instrument used.

1. When more than one Continuing Calibration is performed, forms must be in chronological order.

D. Pesticide forms in the following order:

1. Form VIII - Pesticide Evaluation Standards Summary

2. Form IX - Pesticide/PCB Standards Summary

3. Form X - Pesticide/PCB Identification (only required for positive results)

E. VOA standard(s) chromatograms and data system printouts (or legible facsimile). Spectra are not required.

F. BNA standard(s) chromatograms and data system printouts (or legible facsimile). Spectra are not required.

G. All pesticide evaluation standard(s) (A, B, and C) chromatograms and data system printouts in chronological order.

H. All pesticide Individual Standard Mix (A or B) chromatograms and data system printouts.

CASE: 356

I. Pesticide Quantitation standard(s) chromatograms and data system printouts.

V. Raw QC Data Package

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A. DFTPP

1. Bar graph spectrum
2. Mass listing

B. BFB

1. Bar graph spectrum
2. Mass listing

C. Blank Data

1. Tabulated results (Form I)
2. GC/MS tentative ID sheet (Form I, Part B) even if none found
3. Raw Data - in order: VOA, BNA, Pesticide
   a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)
   b. Chromatogram(s) and data system printout(s) (GC)
   c. HSL spectra with lab generated standard (dual display)
      - data systems which are incapable of dual display shall provide spectra in order:
        - raw HSL compound spectra
        - enhanced or background subtracted spectra
        - laboratory generated HSL standard spectra
   d. GC/MS library search spectra for Tentatively Identified Compounds (TIC)
   e. Quantitation/Calculation of Tentative ID concentrations

D. Matrix Spike Data

1. Tabulated results (Form I) of non-spiked compounds
2. Raw Data - in order: VOA, BNA, Pesticide

CASE: 3567

a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

- spectra not required

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b. Chromatogram(s) and data system printout(s) (GC)

E. Matrix Spike Duplicate Data

1. Tabulated results (Form I) of non-spiked compounds

2. Raw Data - in order: VOA, BNA, Pesticide

a. Reconstructed ion chromatogram(s) and quantitation report(s) or legible facsimile (GC/MS)

- spectra not required

b. Chromatogram(s) and data system printout(s) (GC)

MISSING DELIVERABLES	DATE REQUESTED	REQUESTOR	DATE RECEIVE

CORRECTIVE ACTION: Call SMO at FTS-557-2490

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ABN, VOA
QUALITATIVE PRIORITY POLLUTANT ANALYSIS

Case: 3567

Contractor: PEDCO

SMO#	DATE TIME INJECTED	POSITIVE HIT COMPOUND	STANDARD DATE/ TIME INJ	RRT STD	RRT SAMPLE	(LIMIT) (±.06) Δ RRT	Check if OK, or note exceptions: All ions >10% in STD are in sample	relative intensity sample ± 20% STD	no ions >10% in sample not in STD
EA603	11/26/84 20:08	METHYLENE CHLORIDE	12/13/84 9:06	0.617	0.610 ~~1.814~~	0.007	✓	✓	✓
EA603	11/26/84 20:08	ACETONE	12/13/84 9:06	0.655	0.661	0.006	✓	✓	✓
EA603	12/21/84 17:13	DI-N-BUTYLPHTHALATE	12/19/84 11:41	1.111	1.109	0.002	✓	✓	✓
EA603	12/21/84 17:13	Bis(2-ETHYLHEXYL)PHTHALATE	12/19/84 11:41	1.023 ~~1.111~~	1.020	0.003 ~~0.091~~	✓	✓	✓
EA604	11/26/84 20:47	METHYLENE CHLORIDE	12/13/84 9:06	0.617	0.610	0.007	✓	✓	✓
EA604	11/26/84 20:47	ACETONE	12/13/84 9:06	0.661	0.576	0.034	✓	✓	✓

NOTE: False Positives, as determined by reviewer, should be flagged on Organic Analysis Data Sheet.

Case: 3567

Contractor: PEDCO

TENTATIVELY IDENTIFIED COMPOUNDS
MATCH ASSESSMENT

RECEIVED 1 7 1985

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

EA 603 BNA — SILANE

Case: 3567

Contractor: PEDCO

RECEIVED MAR 1 7 1985

LAB REAGENT/INSTRUMENT BLANK CONTAMINANTS

List only those compounds detected. Check OADS to ensure that the proper flag code B is present for the contaminants found. Contractors do not subtract lab blank contents from samples. If sample level is > 10 x lab blank, pollutant may be really due to the sample. Flag all other sample data as invalid for these compounds.

Units: UG/L

COMPOUND	CRDL	BLANK LEVEL	LIMIT EXCEEDED?
METHYLENE CHLORIDE	5	40.1	35.1

NOTE: CH_2Cl_2, acetone, benzene, toluene, phthalates limits are <5 x CRDL, all others are <1 x CRDL.

Case: 3567

Contractor: PEDCO

O.K.

VOLATILES INITIAL AND CONTINUING CALIBRATION OUTLIERS

I = Initial
C = Continuing

List only outliers below

RECEIVED 1 7 1985

COMPOUND	CCC %RSD (Limit ≤ 25%)	SPCC $\overline{RF}$ (Limit ≥ 0.3)	I or C	Date/Time

IMPACT ON ASSOCIATED SAMPLE DATA:

LAB CORRECTIVE ACTION TAKEN (i.e. new 5 point curve)

Case: 3567

Contractor: PEDCO

SPIKE OUTLIERS

Attach contractor supplied Forms II, III to this sheet.

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Reviewer note:

1) Advisory limits, if exceeded, do not invalidate sample data.

2) No reanalysis or corrective action is contractually required for MS/MSD outliers.

3) If reagent blank has 1 or more surrogates outside contract required QC limits, evidence of recalculation or reanalysis must be found with all new values in control. Call SMO to request reanalysis.

4) If a sample has 1 or more surrogates outside contract required QC limits, evidence of recalculation or reanalysis must be found in the data package. If any surrogate, upon reanalysis, are still out of control, sample data should be flagged as biased due to matrix effect.

OVERALL % OUTLIERS

Surrogate $\frac{\sum \text{outliers}}{\sum \text{all recoveries}} \times 100 = _____ \%$

(Expect 5-15%)

Matrix $\frac{\sum \text{RPD outliers}}{\sum \text{all RPDs}} \times 100 = _____ \%$

$\frac{\sum \text{outliers}}{\sum \text{all recoveries}} \times 100 = _____ \%$

(No expectations)

Case: 3567

Contractor: PEDCO

O.K.

ABN INITIAL AND CONTINUING CALBRATION OUTLIERS

I = Initial
C = Continuing

List only outliers below.

RECEIVED JAN 17 1985

COMPOUND	CCC % RSD Limit ≤25%	SPCC $\overline{RF}$ Limit >.05	I or C	Date/Time

IMPACT ON ASSOCIATED SAMPLE DATA:

LAB CORRECTIVE ACTION TAKEN (i.e. new 5 point curve)

Case: 3567

Contractor: PEDCO

PCB/PESTICIDE GC/EC EVALUATION

Attach Form VIII to this sheet. List only outliers on this sheet.

A) Linearity Check Outliers (limit ≤ 10% rsd)

Pesticide	Date/Time	% rsd
ALDRIN	12-8-84	12.2

Note: No lab action required.

RECEIVED JAN 17 1985

B) Breakdown Check Outliers (limit <10% endrin)
(limit < 5% DDT)

Pesticide	Date/Time	% Breakdown	Samples Affected

Note: Lab must take corrective action. Subsequent runs must be in control. Affected samples must be repeated.

C) Dibutylchlorendate RT Shift Outliers
(limit: ≤2% packed column)
(limit: ≤0.3% cap column)

Standard Name	Date/Time	% Difference	Affected Sample #s

Note: Lab is to continue injecting replicate standards to meet criteria.

Case: 3567

Contractor: PEDCO

PCB/PESTICIDE STANDARDS EVALUATION

Attach Form IX to this sheet. List only outliers below. C = Confirmatic run, Q = quantitation run.

(% Diff Limit C < 20%)
Q < 10%)

Compound	C or Q	% DIFF	Affected Sample #s

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Note: Lab must take corrective action and reanalyze affected samples if limits exceeded.

PCB/Pesticide Blank Contaminants

List only those compounds appearing at >CRDL. Sample data should be fla ged with a "B" code - check for this.

Compound	CRDL	Blank level	Affected Sample #s

Case: 3567

Contractor: PEDCO

PCB/PESTICIDE POSITIVE ID CONFIRMATION

If positive hits were found in the case, Form I must be submitted. Attach Form I to this sheet.

A. RT window criteria outliers (limit: 3 x sd of absolute RT of standard] [Allowable Exceptions: toxaphene, PCBs).

SMO#	Compound	RT actual	RT window Limit	STD Date/Time
EA603	METHOXYCHLOR	18.72	18.72 ± .023	

B. GC/EC confirmation outliers packed column. (Limit: at least 25% resolution between all compounds in standard chromatograms).

Compound	Approximate % Resolution	Affected Sample #s

C. GC/EC Confirmation Outliers - capillary column (Limit: at least 25% resolution between B-BHC/α-BHC, Dieldrin/DDT, DDD/endrin aldehyde, endosulfan sulfate/DDT)

Pesticide Pair	Approximate % Resolution	Affected Sample #s

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Case 3567

Contractor PEDCO

HOLDING TIME REQUIREMENTS

SMO#	VOA A Date Rec'd.	B Date Injected	B-A (Limit) ≤7 or 10*	Sample positive?	ABN, PCB/Pest A Date Rec'd.	B Date Ext.	C Date Anal.	B-A (Limit) ≤ 5,10 **	C-B (Limit) (≤ 40)	Sample positive
EA603	11/20/84	11/26/84			11/20/84	11/21/84	12/21/84			
EA604	11/20/84	11/26/84			11/20/84	11/21/84	12/21/84			

NOTE: No regulatory requirement for holding time exists for these analyses.

Negative samples: flag data as possibly not detected due to holding time exceeded.

Positive samples: flag data as quantitation biased low due to exceeded holding times (especially VOA results).

* 7 for water, 10 for soil

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Case: 3567

Contractor: PEDCO

PCB/PESTICIDE POSITIVE ID CONFIRMATION

D. GC/MS Confirmation

DFTPP run date/time: _____
Criteria met? Y N (Circle one)

If DFTPP not met, confirmation invalid, samples should be reinjected after GC/MS tuned. Affected samples: _____

_____

_____

ASSESSMENT OF POSITIVE HITS:

SMO#	Compound	Reviewer Assessment*

*Agree, or disagree and reason, crossout false positives on OADS

Comments on PCB/Pesticide Data Quality:

_____

_____

_____

_____

_____

RECEIVED JAN 17 1985

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Date Received for Review: 1/17/85 Date Review Completed: 1/18/85

To: Dan Cozza / Dave Curnock

From: Cynthia Bachunas

Subject: Sexton Matteson IL CASE 3567
AKA Richland Park ~~R5-8303-IL~~ R5-8410-01

Sample Description: low waters organics

Project Data Status: Awaiting Inorganics

FIT Data Review Findings:
Methylene chloride, acetone + phtalates should not be used

Additional Comments:
1.) ~~why two different dilution levels for low water~~
2.) ~~why 10.5 not DL~~ OK TC
14 Nov 85

Bill Fear
513/782-4700

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/15/85

RECEIVED JAN 17 1985

SUBJECT: Review of Region V CLP Data
Received for Review on 12/31/84

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

TO: Data User: FIT

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

SITE NAME: Sexton Matteson SMO Case No. 3567

EPA Data Set No. SF865 No. of Samples: 2 D.U./Activity Numbers Y905 IC48500

CRL No. 85MC04563 to 85MC04R08

SMO Traffic No. EA603 to EA604

CLP Laboratory: Pedco Hrs. Required for Review: 4

Following are our findings.

Precision meets QC standards for VOA, Acid, B/N + pesticides
" " " " " " "
Accuracy
Accuracy bias Low for pesticides
methylene chloride was greater than 5 times the CRDL in the 11/27/84 blank.
Very poor chromatograms!

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above. R.H. 1-15-84
( ) 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)

REGION V, U.S. ENVIRONMENTAL PROTECTION AGENCY
ESD/Central Regional Laboratory

DATA TRACKING - FORM I

RECEIVED JAN 17 1985

CRL Data Set No. SF 865 ERRIS No. _____

SMO Case No. 3567 Site Name: Sexton Matteson

Name of Laboratory: Pedco Data User: FIT

No. of Samples: 2 Date Samples Received: 12/31/84

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ___ NO ✓
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 2 Number of samples received: 2
7. Checked by: Marsha Phillips Date: 12/31/84
8. Received by Contract Project Management Section: L Thomas Date: 1/14/85
9. Review Started: _____ Reviewer Signature: _____
10. Total time spent on review: _____ Date review completed: _____
11. Copied (xeroxed) by: _____ Date: _____
12. Transmitted by: _____ Date: _____
13. Mailed to Data User by: _____ Date: _____
14. REMARKS:

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

014

SAMPLE NUMBER
EA603

1

ORGANICS ANALYSIS DATA SHEET
PAGE 1

85M04563

LABORATORY NAME: PEI ASSOCIATES INC
LAB SAMPLE ID NO---------DX219
SAMPLE MATRIX----------WATER
DATA RELEASE AUTHORIZED:

CASE NO:----------3567
QC REPORT NO:----------
CONTRACT NO:-------68-01-7015
DATE SAMPLE RECEIVED-----11/20/84

VOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/26/84
DATE ANALYZED----------11/26/84
CONC/DIL FACTOR---------- .2
PH---------- 6
PERCENT MOISTURE---------N/A
% MOISTURE (DECANTED)----

CAS NO.		UG/L	CAS NUMBER		UG/L
74-87-3	CHLOROMETHANE	10U	79-34-5	1,1,2,2-TETRACHLOROETHANE	5U
74-83-9	BROMOMETHANE	10U	78-87-5	1,2-DICHLOROPROPANE	5U
75-01-4	VINYL CHLORIDE	10U	10061-02-6	TRANS-1,3-DICHLOROPROPANE	5U
75-00-3	CHLOROETHANE	10U	79-01-6	TRICHLOROETHENE	5U
75-09-2	METHYLENE CHLORIDE	37.4B	124-48-1	DIBROMOCHLOROMETHANE	5U
67-64-1	ACETONE	77.4B	79-00-5	1,1,2-TRICHLOROETHANE	5U
75-15-0	CARBON DISULFIDE	5U	71-43-2	BENZENE	5U
75-35-4	1,1-DICHLOROETHENE	5U	10061-05-5	CIS-1,3-DICHLOROPROPANE	5U
75-34-3	1,1-DICHLOROETHANE	5U	110-75-8	2-CHLOROETHYLVINYLETHER	10U
156-60-5	TRANS-1,2-DICHLOROETHENE	5U	75-25-2	BROMOFORM	5U
67-66-3	CHLOROFORM	5U	591-78-6	2-HEXANONE	10U
107-06-2	1,2-DICHLOROETHANE	5U	108-10-1	4-METHYL-2-PENTANONE	10U
78-93-3	2-BUTANONE	10U	127-18-4	TETRACHLOROETHENE	5U
71-55-6	1,1,1-TRICHLOROETHANE	5U	108-88-3	TOLUENE	5U
56-23-5	CARBON TETRACHLORIDE	5U	108-90-7	CHLOROBENZENE	5U
108-05-4	VINYL ACETATE	10U	100-41-4	ETHYLBENZENE	5U
75-27-4	BROMODICHLOROMETHANE	5U	100-42-5	STYRENE	5U
				TOTAL XYLENES	5U

DATA REPORT QUALIFIERS

VALUE IF THE VALUE IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT, REPORT THE VALUE

U COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED REPORT THE MINIMUM DETECTION LIMIT WITH THE U

J INDICATES AN ESTIMATED VALUE

K INDICATES THE COMPOUND WAS DETECTED, HOWEVER, THE VALUE WAS BELOW THE DETECTION LIMIT FOR THE COMPOUND

C PRESENCE CONFIRMED BY GC/MS PESTICIDES ONLY

B ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

015

SAMPLE NUMBER EA603

85MC04563

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ORGANICS ANALYSIS DATA SHEET
PAGE 2

SEMIVOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/21/84
CONC/DIL FACTOR---------- 500 XDL

CAS NO.		UG/L	CAS NO.		UG/L
62-75-9	N-NITROSODIMETHYL AMINE--	10U	83-32-9	ACENAPTHENE----------	10U
108-95-2	PHENOL----------	10U	51-28-5	2,4-DINITROPHENOL--------	50U
62-53-3	ANILINE----------	10U	100-02-7	4-NITROPHENOL----------	50U
111-44-4	BIS(2-CHLOROETHYL)ETHER--	10U	132-64-9	DIBENZOFURAN----------	10U
95-57-8	2-CHLOROPHENOL----------	10U	121-14-2	2,4-DINITROTOLUENE-------	10U
541-73-1	1,3-DICHLOROBENZENE------	10U	606-20-2	2,6-DINITROTOLUENE-------	10U
106-46-7	1,4-DICHLOROBENZENE------	10U	84-66-2	DIETHYLPHTHALATE---------	10U
100-51-6	BENZYL ALCOHOL----------	10U	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
95-50-1	1,2-DICHLOROBENZENE------	10U	86-73-7	FLUORENE----------	10U
95-48-7	2-METHYL PHENOL----------	10U	100-01-6	4-NITROANILINE----------	50U
36938-32-9	BIS(2CHLOROISOPROPYLETHER	10U	534-52-1	4,6DINITRO2METHYLPHENOL--	50U
106-44-5	4-METHYL PHENOL----------	10U	86-30-6	N-NITROSODIPHENYLAMINE(1)	10U
621-64-7	NNITROSODIPROPYL AMINE---	10U	101-55-3	4BROMPHENYLPHENYLETHER---	10U
67-72-1	HEXACHLOROETHANE---------	10U	118-74-1	HEXACHLOROBENZENE--------	10U
98-95-3	NITROBENZENE----------	10U	87-86-5	PENTACHLOROPHENOL--------	50U
78-59-1	ISOPHORONE----------	10U	85-01-8	PHENANTHRENE----------	10U
88-75-5	2-NITROPHENOL----------	10U	120-12-7	ANTHRACENE----------	10U
105-67-9	2,4-DIMETHYL PHENOL------	10U	84-74-2	DI-N-BUTYLPHTHALATE------	8.6K
65-85-0	BENZOIC ACID----------	50U	206-44-0	FLUORANTHENE----------	10U
111-91-1	BIS2CHLORETHOXY METHANE--	10U	92-87-5	BENZIDINE----------	10U
120-83-2	2,4-DICHLOROPHENOL-------	10U	129-00-0	PYRENE----------	10U
120-82-1	1,2,4-TRICHLOROBENZENE---	10U	85-68-7	BUTYLBENZYLPHTHALATE-----	10U
91-20-3	NAPTHALENE----------	10U	91-94-1	3,3'-DICHLOROBENZIDINE---	20U
106-47-8	4-CHLOROANILINE----------	10U	56-55-3	BENZO(A)ANTHRACENE-------	10U
87-68-3	HEXACHLOROBUTADIENE------	10U	117-81-7	BIS(2ETHYLHEXYL)PHTHALATE	57.2
59-50-7	4-CHLORO-3-METHYL PHENOL-	10U	218-01-9	CHRYSENE----------	10U
91-57-6	2-METHYLNAPTHALENE-------	10U	117-84-0	DI-N-OCTYL PHTHALATE-----	4K
77-47-4	HEXACHLOROCYCLOPENTADIENE	10U	205-99-2	BENZO(B)FLUORANTHENE-----	10U
88-06-2	2,4,6-TRICHLOROPNENOL----	10U	207-08-9	BENZO(K)FLUORANTHENE-----	10U
95-95-4	2,4,5-TRICHLOROPHENOL----	50U	50-32-8	BENZO(A)PYRENE----------	10U
91-58-7	2-CHLORONAPTHALENE-------	10U	193-39-5	INDENO(123-CD)PYRENE-----	10U
88-74-4	2-NITROANILINE----------	50U	53-70-3	DIBENZ(GHI)PERYLENE------	10U
131-11-3	DIMETHYL PHTHALATE-------	10U	191-24-2	BENZO(GHI)PERYLENE-------	10U
208-96-8	ACENAPHTHYLENE----------	10U			
99-09-2	3-NITROANILINE----------	50U			

(1) CANNOT BE SEPARATED FROM DIPHENYAMINE

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ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

016

SAMPLE NUMBER EA603

1

ORGANICS ANALYSIS DATA SHEET
PAGE 3

PESTICIDE/PCB'S

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/13/84
CONC/DIL FACTOR---------- 210

CAS NO.		UG/L
319-84-6	ALPHA-BHC	1.05U
319-85-7	BETA-BHC	1.05U
319-86-8	DELTA-BHC	1.05U
58-89-9	GAMMA-BHC(LINDANE)-------	1.05U
76-44-8	HEPTACHLOR----------	1.05U
309-00-2	ALDRIN----------	1.05U
1024-57-3	HEPTACHLOR EPOXIDE-------	1.05U
959-98-8	ENDOSULFAN I----------	1.05U
60-57-1	DIELDRIN----------	2.1U
72-55-9	4,4'-DDE----------	2.1U
72-20-8	ENDRIN----------	2.1U
33213-65-9	ENDOSULFAN II----------	2.1U
72-54-8	4,4'-DDD	2.1U
7421-93-4	ENDRIN ALDEHYDE----------	2.1U
1031-07-8	ENDOSULFAN SULFATE-------	2.1U
50-29-3	4,4'-DDT	0.1 2.1U
72-43-5	METHOXYCHLOR----------	0.5 2.76
53494-70-5	ENDRIN KETONE----------	~~2.1U~~
57-74-9	CHLORDANE----------	10.5U
8001-35-2	TOXAPHENE----------	21U
12674-11-2	AROCHLOR-1016----------	10.5U
11104-28-2	AROCHLOR-1221----------	10.5U
11141-16-5	AROCHLOR-1232----------	10.5U
53469-21-9	AROCHLOR-1242----------	10.5U
12672-29-6	AROCHLOR-1248----------	10.5U
11097-69-1	AROCHLOR-1254----------	21U
11096-82-5	AROCHLOR-1260----------	21U

VI=VOLUME OF EXTRACT INJECTED------ 5UL
VS=VOLUME OF WATER EXTRACTED------- 1000ML
WS=WEIGHT OF SAMPLE EXTRACTED------ G
VT=VOLUME OF TOTAL EXTRACT--------- 10000UL

DL=10.5 ?

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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EA603

017

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.	SILANE	BNA	1043	35
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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16.				
17.				
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23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

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ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

C43

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 1

85MC04R08

LABORATORY NAME: PEI ASSOCIATES INC
LAB SAMPLE ID NO---------DX220
SAMPLE MATRIX----------WATER
DATA RELEASE AUTHORIZED:

CASE NO:---------- 3567
QC REPORT NO:----------
CONTRACT NO:-------68-01- 7015
DATE SAMPLE RECEIVED-----11/20/84

VOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/26/84
DATE ANALYZED----------11/26/84
CONC/DIL FACTOR---------- .2
PH---------- 6
PERCENT MOISTURE---------N/A
% MOISTURE (DECANTED)----

CAS NO.		UG/L	CAS NUMBER		UG/L
74-87-3	CHLOROMETHANE	10U	79-34-5	1,1,2,2-TETRACHLOROETHANE	5U
74-83-9	BROMOMETHANE	10U	78-87-5	1,2-DICHLOROPROPANE	5U
75-01-4	VINYL CHLORIDE	10U	10061-02-6	TRANS-1,3-DICHLOROPROPANE	5U
75-00-3	CHLOROETHANE	10U	79-01-6	TRICHLOROETHENE	5U
75-09-2	METHYLENE CHLORIDE	36.1B	124-48-1	DIBROMOCHLOROMETHANE	5U
67-64-1	ACETONE	149B	79-00-5	1,1,2-TRICHLOROETHANE	5U
75-15-0	CARBON DISULFIDE	5U	71-43-2	BENZENE	5U
75-35-4	1,1-DICHLOROETHENE	5U	10061-05-5	CIS-1,3-DICHLOROPROPANE	5U
75-34-3	1,1-DICHLOROETHANE	5U	110-75-8	2-CHLOROETHYLVINYLETHER	10U
156-60-5	TRANS-1,2-DICHLOROETHENE	5U	75-25-2	BROMOFORM	5U
67-66-3	CHLOROFORM	5U	591-78-6	2-HEXANONE	10U
107-06-2	1,2-DICHLOROETHANE	5U	108-10-1	4-METHYL-2-PENTANONE	10U
78-93-3	2-BUTANONE	10U	127-18-4	TETRACHLOROETHENE	5U
71-55-6	1,1,1-TRICHLOROETHANE	5U	108-88-3	TOLUENE	5U
56-23-5	CARBON TETRACHLORIDE	5U	108-90-7	CHLOROBENZENE	5U
108-05-4	VINYL ACETATE	10U	100-41-4	ETHYLBENZENE	5U
75-27-4	BROMODICHLOROMETHANE	5U	100-42-5	STYRENE	5U
				TOTAL XYLENES	5U

DATA REPORT QUALIFIERS

VALUE IF THE VALUE IS A VALUE GREATER THAN OR EQUAL TO THE DETECTION LIMIT, REPORT THE VALUE

U COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED REPORT THE MINIMUM DETECTION LIMIT WITH THE U

J INDICATES AN ESTIMATED VALUE

K INDICATES THE COMPOUND WAS DETECTED, HOWEVER, THE VALUE WAS BELOW THE DETECTION LIMIT FOR THE COMPOUND

C PRESENCE CONFIRMED BY GC/MS PESTICIDES ONLY

B ANALYTE WAS FOUND IN THE BLANK AS WELL AS THE SAMPLE

RECEIVED JAN 17 1985

ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 2

SEMIVOLATILE COMPOUNDS

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12.21/84
CONC/DIL FACTOR---------- 500

CAS NO.		UG/L	CAS NO.		UG/L
62-75-9	N-NITROSODIMETHYL AMINE--	10U	83-32-9	ACENAPTHENE----------	10U
108-95-2	PHENOL----------	10U	51-28-5	2,4-DINITROPHENOL--------	50U
62-53-3	ANILINE----------	10U	100-02-7	4-NITROPHENOL----------	50U
111-44-4	BIS(2-CHLOROETHYL)ETHER--	10U	132-64-9	DIBENZOFURAN----------	10U
95-57-8	2-CHLOROPHENOL----------	10U	121-14-2	2,4-DINITROTOLUENE-------	10U
541-73-1	1,3-DICHLOROBENZENE------	10U	606-20-2	2,6-DINITROTOLUENE-------	10U
106-46-7	1,4-DICHLOROBENZENE------	10U	84-66-2	DIETHYLPHTHALATE---------	10U
100-51-6	BENZYL ALCOHOL----------	10U	7005-72-3	4-CHLOROPHENYLPHENYLETHER	10U
95-50-1	1,2-DICHLOROBENZENE------	10U	86-73-7	FLUORENE----------	10U
95-48-7	2-METHYL PHENOL----------	10U	100-01-6	4-NITROANILINE----------	50U
36938-32-9	BIS(2CHLOROISOPROPYLETHER	10U	534-52-1	4,6DINITROZMETHYLPHENOL--	50U
106-44-5	4-METHYL PHENOL----------	10U	86-30-6	N-NITROSODIPHENYLAMINE(1)	10U
621-64-7	NNITROSODIPROPYL AMINE---	10U	101-55-3	4BROMPHENYLPHENYLETHER---	10U
67-72-1	HEXACHLOROETHANE---------	10U	118-74-1	HEXACHLOROBENZENE--------	10U
98-95-3	NITROBENZENE----------	10U	87-86-5	PENTACHLOROPHENOL--------	50U
78-59-1	ISOPHORONE----------	10U	85-01-8	PHENANTHRENE----------	10U
88-75-5	2-NITROPHENOL----------	10U	120-12-7	ANTHRACENE----------	10U
105-67-9	2,4-DIMETHYL PHENOL------	10U	84-74-2	DI-N-BUTYLPHTHALATE------	10U
65-85-0	BENZOIC ACID----------	50U	206-44-0	FLUORANTHENE----------	10U
111-91-1	BIS2CHLORETHOXY METHANE--	10U	92-87-5	BENZIDINE----------	10U
120-83-2	2,4-DICHLOROPHENOL-------	10U	129-00-0	PYRENE----------	10U
120-82-1	1,2,4-TRICHLOROBENZENE---	10U	85-68-7	BUTYLBENZYLPHTHALATE-----	10U
91-20-3	NAPTHALENE----------	10U	91-94-1	3,3'-DICHLOROBENZIDINE---	20U
106-47-8	4-CHLOROANILINE----------	10U	56-55-3	BENZO(A)ANTHRACENE-------	10U
87-68-3	HEXACHLOROBUTADIENE------	10U	117-81-7	BIS(2ETHYLHEXYL)PHTHALATE	10U
59-50-7	4-CHLORO-3-METHYL PHENOL-	10U	218-01-9	CHRYSENE----------	10U
91-57-6	2-METHYLNAPTHALENE-------	10U	117-84-0	DI-N-OCTYL PHTHALATE-----	10U
77-47-4	HEXACHLOROCYCLOPENTADIENE	10U	205-99-2	BENZO(B)FLUORANTHENE-----	10U
88-06-2	2,4,6-TRICHLOROPNENOL----	10U	207-08-9	BENZO(K)FLUORANTHENE-----	10U
95-95-4	2,4,5-TRICHLOROPHENOL----	50U	50-32-8	BENZO(A)PYRENE----------	10U
91-58-7	2-CHLORONAPTHALENE-------	10U	193-39-5	INDENO(123-CD)PYRENE-----	10U
88-74-4	2-NITROANILINE----------	50U	53-70-3	DIBENZ(GHI)PERYLENE------	10U
131-11-3	DIMETHYL PHTHALATE-------	10U	191-24-2	BENZO(GHI)PERYLENE-------	10U
208-96-8	ACENAPHTHYLENE----------	10U			
99-09-2	3-NITROANILINE----------	50U			

(1) CANNOT BE SEPARATED FROM DIPHENYAMINE

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ENVIRONMENTAL PROTECTION AGENCY SAMPLE MANAGEMENT OFFICE
P.O. BOX 818 ALEXANDRIA,VA 22313 703/557-2490

SAMPLE NUMBER
EA604

1

ORGANICS ANALYSIS DATA SHEET
PAGE 3

PESTICIDE/PCB'S

CONCENTRATION----------LOW
DATE EXTRACTED----------11/21/84
DATE ANALYZED----------12/13/84
CONC/DIL FACTOR---------- 10

CAS NO.		UG/L
319-84-6	ALPHA-BHC	.05U
319-85-7	BETA-BHC	.05U
319-86-8	DELTA-BHC	.05U
58-89-9	GAMMA-BHC(LINDANE)-------	.05U
76-44-8	HEPTACHLOR----------	.05U
309-00-2	ALDRIN----------	.05U
1024-57-3	HEPTACHLOR EPOXIDE-------	.05U
959-98-8	ENDOSULFAN I----------	.05U
60-57-1	DIELDRIN----------	.1U
72-55-9	4,4'-DDE----------	.1U
72-20-8	ENDRIN----------	.1U
33213-65-9	ENDOSULFAN II----------	.1U
72-54-8	4,4'-DDD	.1U
7421-93-4	ENDRIN ALDEHYDE----------	.1U
1031-07-8	ENDOSULFAN SULFATE-------	.1U
50-29-3	4,4'-DDT	.1U
72-43-5	METHOXYCHLOR----------	.5U
53494-70-5	ENDRIN KETONE----------	.1U
57-74-9	CHLORDANE----------	.5U
8001-35-2	TOXAPHENE----------	1U
12674-11-2	AROCHLOR-1016----------	.5U
11104-28-2	AROCHLOR-1221----------	.5U
11141-16-5	AROCHLOR-1232----------	.5U
53469-21-9	AROCHLOR-1242----------	.5U
12672-29-6	AROCHLOR-1248----------	.5U
11097-69-1	AROCHLOR-1254----------	1U
11096-82-5	AROCHLOR-1260----------	1U

21
05
105

21
15
105

VI=VOLUME OF EXTRACT INJECTED------	5UL
VS=VOLUME OF WATER EXTRACTED-------	1000ML
WS=WEIGHT OF SAMPLE EXTRACTED------	G
VT=VOLUME OF TOTAL EXTRACT---------	10000UL

21
5
105

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Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
EA604

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NONE	VOA		
2.				
3.	NONE	BNA		
4.				
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