83

Site: Atlantic
ID #: IAD039954300
Break 1.3
Other
EDE
12-14-87

Kenny
Pete

CZ

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

A72Q

1.0

OU-00 161120
SUPERFUND RECORDS

DEC 17 1987

DATE: 12/14/87

MEMORANDUM

SUBJECT: Data Transmittal For Activity Number: IK994
Site Description: Atlantic P.W.S.

FROM: Robert D. Kleopfer, Ph.D. RDK
Chief, Laboratory Branch, ENSV

TO: Charles P. Hensley
Chief, Emergency Planning and Response Branch, ENSV

ATTN: _____

Attached is the data transmittal for the above referenced site. This should be considered a ___ Partial ___ Corrected X Complete data transmittal (completes transmittal of _____). If you have any questions or comments, please contact D. Simmons at 236-3881.

Attachments

cc: Data File
E+E
SPFD
WATR
R. Roe, EP+R

RECEIVED
DEC 22 1987
SUPERFUND BRANCH

EPA Region VII

Data Qualification Codes

U - Compound was not detected.

M - Compound was qualitatively identified; however, quantitative value is less than contract required detection limits (CLP data); or value is less than limit of quantitation (EPA data).

J - Compound was qualitatively identified; however, compound failed to meet all QA criteria and, therefore, is only an estimated value.

I - Analysis attempted, but no results can be reported.

O - Sample lost or not analyzed.

L - Value known to be higher than value reported.

NA I - Sample was not analyzed for this compound.

Codes for Flash Point Data

L - The sample did not ignite or "flash." This is the highest temperature at which the sample was tested. It is possible that the material may be ignitable at higher temperatures.

K - The sample did ignite or "flash" at the lowest temperature tested. This is usually the ambient temperature at the time of the test. It is possible that the material may be ignitable at even lower temperatures.

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: ATLANTIC PUBLIC WATER SUPPLY Site Number:
Location: ATLANTIC IA Site Code:

Collected: YR: 87 MO: 8 Day: 24 Time: 1545 1600 Leader: PHIL DULA

Sample Number: IK994041 SMO #:

Sample Media (circle one):
SOIL DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Split (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	PURPLE	NONE	PESTICIDES
8 OZ JAR	PURPLE	NONE	BNA
2 40 ML VIAL	LIME	NONE	VOA

Depth: 4 TO 5 FT Pan #: FIA0194SBF Aliquots: ONE

Samplers: PHILIP DULA & KEVIN HUGHL

COMMENTS OF FIELD PERSONNEL

Site Description: ATLANTIC. P.W.S. ATLANTIC. IOWA PROBE LOCATION #1 - SAMPLE CONSISTS OF SOIL WITH HIGH CLAY CONTENT. DARK BROWN TO GRAY BLACK SOIL. SOIL IS VERY PLASTIC IN CONSISTENCY. THIS MAY BE DUE TO RAINY WEATHER ON 8-24-87. AND HIGH CLAY CONTENT OF SOIL.

POSSIBLE MEDIUM CONCENTRATION

IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: ATLANTIC PUBLIC WATER SUPPLY Site Number:
Location: ATLANTIC IA Site Code:

Collected: YR: 87 MO: 8 Day: 27 Time: 1030 Leader: PHIL DULA

Sample Number: IK99A002. SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Split (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	PURPLE	NONE	PESTICIDES
8 OZ JAR	PURPLE	NONE	BNA
2 40 ML VIAL	LIME	NONE	VOA

Depth: 2-3 FT Pan #: FIA0194SB Aliquots: 2

Samplers: PHILIP DULA, JEAN CARLETON

COMMENTS OF FIELD PERSONNEL

Site Description: ATLANTIC P.W.S ATLANTIC, IOWA

SAMPLE LOCATION - PROBE LOCATION # 5
30 FT EAST PROBE LOCATION #5. (HARDEE'S REST.)

POSSIBLE MEDIUM CONCENTRATION

IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: ATLANTIC PUBLIC WATER SUPPLY Site Number:
Location: ATLANTIC IA Site Code:

Collected: YR: 87 MO: 8 Day: 28 Time: 1000 Leader: PHIL DULA

Sample Number: IK994003 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Solit (circle one): YES NO

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	PURPLE	NONE	PESTICIDES
8 OZ JAR	PURPLE	NONE	BNA
2 40 ML VIAL	LIME	NONE	VOA

Depth: 0-4' Pan #: FIA019458 Alicuots: 5

Samplers: PHILIP DULA

COMMENTS OF FIELD PERSONNEL

Site Description: PROBE LOCATION #77 - ≈ 150 FEET EAST OF PROBE LOCATION #5. (HARDEE'S REST.)

POSSIBLE MEDIUM. CONCENTRATION.

IBM-PC

ALYSIS TYPE: VOLATILES

TITLE: ALANTA PWSTLANTA PWS MATRIX: SEDIMENT UNITS: UG/KG
LAB: IT CERRITOS METHOD: 9302M01 CASE: 7980
SAMPLE PREP:_____ ANALYST/ENTRY: LOS REVIEWER: JSH DATE: 11/24/87

	IK994001	IK994002	IK994003
CHLOROMETHANE	13.U	12.U	12.U
BROMOMETHANE	13.U	12.U	12.U
VINYL CHLORIDE	13.U	12.U	12.U
CHLOROETHANE	13.U	12.U	12.U
METHYLENE CHLORIDE	32.U	21.U	27.U
ACETONE	26.U	20.U	26.U
CARBON DISULFIDE	6.6U	6.0U	6.2U
1,1 DICHLOROETHENE	6.6U	6.0U	6.2U
1,1 DICHLOROETHANE	6.6U	6.0U	6.2U
TRANS-1,2,-DICHLOROETHENE	6.6U	6.0U	6.2U
CHLOROFORM	6.6U	6.0U	6.2U
1,2,DICHLOROETHANE	6.6U	6.0U	6.2U
2-BUTANONE	I	I	I
1,1,1 TRICHLOROETHANE	4.0M	6.0M	6.2U
CARBON TETRACHLORIDE	6.6U	6.0U	6.2U
VINYL ACETATE	13.U	12.U	12.U
BROMODICHLOROMETHANE	6.6U	6.0U	6.2U
1,1,2,2,-TETRACHLOROETHANE	6.6U	6.0U	6.2U
1,2-DICHLOROPROPANE	6.6U	6.0U	6.2U
TRANS-1,3-DICHLOROPROPENE	6.6U	6.0U	6.2U
TRICHLOROETHENE	6.6U	6.0U	6.2U
DIBROMOCHLOROMETHANE	6.6U	6.0U	6.2U
1,1,2-TRICHLOROETHANE	6.6U	6.0U	6.2U
BENZENE	6.6U	6.0U	6.2U
CIS-1,3-DICHLOROPROPENE	6.6U	6.0U	6.2U
2-CHLOROETHYL VINYL ETHER	13.U	12.U	12.U
BROMOFORM	6.6U	6.0U	6.2U
2-HEXANONE	13.U	12.U	12.U
4-METHYL-2-PENTANONE	13.U	12.U	12.U
TETRACHLOROETHENE	2.0M	20.	29.
TOLUENE	6.6U	6.0U	6.2U
CHLOROBENZENE	6.6U	6.0U	6.2U
ETHYL BENZENE	6.6U	6.0U	6.2U
STYRENE	6.6U	6.0U	6.2U
TOTAL XYLENES	6.6U	6.0U	6.2U

** NOTE: N/A MEANS NOT ANALYZED **
*** I MEANS ANALYZED BUT INVALID DATA ***

ALYSIS TYPE: SEMIVOLATILE AGE 1

TITLE: ATLANTA PWS MATRIX: SEDIMENT UNITS: UG/KG
LAB: IT CERRITOS METHOD: 9302M01 CASE: 7980
SAMPLE PREP:_____ ANALYST/ENTRY: LO6 REVIEWER: _____VS 11 DATE: 11/24/87

	IK994001	IK994002	IK994003
PHENOL	430.U	400.U	410.U
BIS(2-CHLOROETHYL) ETHER	430.U	400.U	410.U
2-CHLOROPHENOL	430.U	400.U	410.U
1,3 DICHLOROBENZENE	430.U	400.U	410.U
1,4 DICHLOROBENZENE	430.U	400.U	410.U
BENZYL ALCOHOL	430.U	400.U	410.U
1,2 DICHLOROBENZENE	430.U	400.U	410.U
2-METHYLPHENOL	430.U	400.U	410.U
BIS(2-CHLOROISOPROPYL)ETHER	430.U	400.U	410.U
4-METHYLPHENOL	430.U	400.U	410.U
N-NITROSO-DIPROPYLAMINE	430.U	400.U	410.U
HEXACHLOROETHANE	430.U	400.U	410.U
NITROBENZENE	430.U	400.U	410.U
ISOPHORONE	430.U	400.U	410.U
2-NITROPHENOL	430.U	400.U	410.U
2,4-DIMETHYLPHENOL	430.U	400.U	410.U
BENZOIC ACID	2100.U	1900.U	2000.U
BIS(2-CHLOROETHOXY) METHANE	430.U	400.U	410.U
2,4 DICHLOROPHENOL	430.U	400.U	410.U
1,2,4-TRICHLOROBENZENE	430.U	400.U	410.U
NAPHTHALENE	430.U	400.U	410.U
4-CHLOROANILINE	430.U	400.U	410.U
HEXACHLOROBUTADIENE	430.U	400.U	410.U
4-CHLORO-3-METHYLPHENOL	430.U	400.U	410.U
2-METHYLNAPHTHALENE	430.U	400.U	410.U
HEXACHLOROCYCLOPENTADIENE	430.U	400.U	410.U
2,4,6-TRICHLOROPHENOL	430.U	400.U	410.U
2,4,5-TRICHLOROPHENOL	2100.U	1900.U	2000.U
2-CHLORONAPHTHALENE	430.U	400.U	410.U
2-NITROANILINE	2100.U	1900.U	2000.U
DIMETHYLPHTHALATE	430.U	400.U	410.U
ACENAPHTHYLENE	430.U	400.U	410.U
3-NITROANILINE	I	I	I
ACENAPHTHENE	430.U	400.U	410.U
2,4-DINITROPHENOL	2100.U	1900.U	2000.U
4-NITROPHENOL	2100.U	1900.U	2000.U
DIBENZOFURAN	430.U	400.U	410.U
2,4-DINITROTOLUENE	430.U	400.U	410.U

** NOTE: N/A MEANS NOT ANALYZED **
*** I MEANS ANALYZED BUT INVALID DATA ***

TITLE: ATLANTA PWS MATRIX: SEDIMENT UNITS: UG/KG
LAB: IT CERRITOS METHOD: 9302M01 CASE: 7980
SAMPLE PREP:_____ ANALYST/ENTRY: L07 REVIEWER: _____ DATE: 11/24/87

	IK994001	IK994002	IK994003
2,6-DINITROTOLUENE	430.U	400.U	410.U
DIETHYLPHTHALATE	430.U	400.U	88.M
4-CHLOROPHENYL PHENYL ETHER	430.U	400.U	410.U
FLUORENE	430.U	400.U	410.U
4-NITROANILINE	2100.U	1900.U	2000.U
4,6-DINITRO-2-METHYLPHENOL	2100.U	1900.U	2000.U
N-NITROSODIPHENYLAMINE	430.U	400.U	410.U
4-BROMOPHENYL PHENYL ETHER	430.U	400.U	410.U
HEXACHLOROBENZENE	430.U	400.U	410.U
PENTACHLOROPHENOL	2100.U	1900.U	2000.U
PHENANTHRENE	430.U	420.	160.M
ANTHRACENE	430.U	99.M	410.U
DI-N-BUTYLPHTHALATE	110.M	400.U	410.U
FLUORANTHENE	430.U	950.U	380.M
PYRENE	430.U	880.U	340.M
BUTYL BENZYL PHTHALATE	430.U	400.U	410.U
3,3' DICHLOROBENZIDINE	860.U	790.U	820.U
BENZO(A)ANTHRACENE	430.U	400.U	220.M
BIS(2-ETHYLHEXYL)PHTHALATE	430.U	400.U	410.U
CHRYSENE	430.U	400.U	220.M
DI-N-OCTYL PHTHALATE	430.U	400.U	410.U
BENZO(B)FLUORANTHENE	430.U	400.U	500.
BENZO(K)FLUORANTHENE	430.U	400.U	410.U
BENZO(A)PYRENE	430.U	400.U	240.M
INDENO(1,2,3-CD)PYRENE	430.U	400.U	180.M
DIBENZO(A,H)ANTHRACENE	430.U	400.U	410.U
BENZO(G,H,I)PERYLENE	430.U	400.U	410.U

** NOTE: N/A MEANS NOT ANALYZED **
*** I MEANS ANALYZED BUT INVALID DATA ***

ALYSIS TYPE: PESTICIDES

TITLE: ATLANTA PWS MATRIX: SEDIMENT UNITS: UG/KG
LAB: IT CERRITOS METHOD: 9302M01 CASE: 7980
SAMPLE PREF:_____ ANALYST/ENTRY: LOS REVIEWER: JSK DATE: 11/24/87

	IK994001	IK994002	IK994003
ALPHA-BHC	21.U	19.U	20.U
BETA-BHC	21.U	19.U	20.U
DELTA-BHC	21.U	19.U	20.U
GAMMA-BHC	21.U	19.U	20.U
HEPTACHLOR	21.U	19.U	20.U
ALDRIN	21.U	19.U	20.U
HEPTACHLOR EPOXIDE	21.U	19.U	20.U
ENDOSULFAN I	21.U	19.U	20.U
DIELDRIN	42.U	9.0	40.U
4,4'-DDE	42.U	38.U	8.4M
ENDRIN	42.U	38.U	40.U
ENDOSULFAN II	42.U	38.U	40.U
4,4'-DDD	42.U	38.U	40.U
ENDRIN ALDEHYDE	42.U	38.U	40.U
ENDOSULFAN SULFATE	42.U	41.	27.M
4,4'-DDT	42.U	38.U	40.U
ENDRIN KETONE	42.U	38.U	40.U
METHOXYCHLOR	210.U	190.U	200.U
CHLORDANE	210.U	190.U	200.U
TOXAPHENE	420.U	380.U	400.U
AROCLOR-1016	210.U	190.U	200.U
AROCLOR-1221	210.U	190.U	200.U
AROCLOR-1232	210.U	190.U	200.U
AROCLOR-1242	210.U	190.U	200.U
AROCLOR-1248	210.U	190.U	200.U
AROCLOR-1254	420.U	380.U	400.U
AROCLOR-1260	210.U	190.U	400.U

** NOTE: N/A MEANS NOT ANALYZED **
*** I MEANS ANALYZED BUT INVALID DATA ***

TITLE: ATLANTIC PUBLIC
LAB: IT CERRITOS
ANALYST/ENTRY: LT

MATRIX: SOIL
METHOD: 9302M01
REVIEWER: STANTON

UNITS: UG/KG
CASE: 7980
DATE: 11-24-87

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.	COMPOUND NAME**	FRACTION	EST.	CONC.*
IK994001	NONE	VOA		
IK994001	2 HYDROCARBONS	BNA	300	J
IK994002	NONE	VOA		
IK994002	MOLECULAR SULFUR	BNA	400	J
IK994002	UNSATURATED HYDROCARBON	BNA	300	J
IK994002	BENZO[J]FLUOANTHENE	BNA	300	J
IK994003	NONE	VOA		
IK994003	MOLECULAR SULFUR	BNA	3000	J
IK994003	7 HYDROCARBONS	BNA	200-900	J
IK994001	5 UNKNOWNS	BNA	200-3000	J
IK994001	7 UNKNOWN PHTHALATE	BNA	200-700	J
IK994002	8 UNKNOWNS	BNA	200-800	J
IK994002	UNKNOWN PHTHALATE	BNA	300	J
IK994003	11 UNKNOWNS	BNA	200-3000	J
IK994003	UNKNOWN PHTHALATE	BNA	300	J

*This is a crude estimation based on response relative to an internal standard. An authentic standard has not been run.

**The compounds were identified using a library search routine. Authentic standards have not been analyzed to verify compound mass spectra and retention times.

ECOLOGY AND ENVIRONMENT, INC.
Kansas City TAT 7 Office

MEMORANDUM

TO: R.D. Kleopfer, Acting Chief, LABO
THRU: Ron McCutcheon, DPO

FROM: Jeffrey Stanton, TAT JS
THRU: Audra Gier, ATATL acg
Paul Kopsick, ATATL PRK

DATE: November 24, 1987

SUBJECT: Review of data for Atlantic Public Water Supply
TDD# T07-8709-002
PAN# T07-Z054-QSC

These data were reviewed according to the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses," April 11, 1985 revision and the "Laboratory Data Validation Functional Guidelines for Evaluating Pesticides and PCBs."

The following comments and attached data sheets are a result of Ecology & Environment's review of the above mentioned data from the contract laboratory.

CASE NO.: 7980
CONTRACT NO.: 68-01-726
SITE: Atlantic Public Water
SMO SAMPLE NOS.: GC866-868

LABORATORY: IT Cerritos
METHOD NO.: 9302M01
MATRIX: Soil
EPA SAMPLE NOS.: IK994001-003

1. These analyses were for total organics (volatiles, extractables and pesticides/PCBs) per low level IFB protocol.

2. Bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP) tunings and mass calibrations were satisfactory for the GC/MS volatiles and extractables analyses.

3. In the initial and continuing calibrations for the volatiles/extractables, 2-butanone and 3-nitroaniline had weak responses (average RRFs or RF50s less than 0.05). Associated non-detects have been invalidated as a result.

In the volatiles/BNA continuing calibrations, various compounds exceeded %-difference limits, however no positives were associated with these.

All system performance and calibration check compound criteria were met.

Pesticide initial calibration linearity was demonstrated as the differences between calibration factors for Aldrin, Endrin, DDT and DBC had less than 10% RSD in the linearity evaluation

check. The continuing calibrations heptachlor and methoxychlor exceeded %-difference limits, but as no positives were associated with these calibration checks, no action was taken.

4. Methylene chloride, acetone and toluene were reported in the volatiles method blank. Results for these volatiles in the samples were qualified by blank rules.

Two unknowns (scan #s 509 and 518) were reported in the BNA method blank. No unknowns with similar scan #s were reported on the tentatively identified compounds lists.

No pesticides/PCBs were reported in the pesticides method blank.

No field blank was associated with this set of data.

5. GC/MS instrument performance was satisfactory based on a comparison of internal standard response areas in the samples versus those in the associated daily calibrations.

Pesticide instrument performance was satisfactory based on:

a. DDT retention times were greater than 12 minutes.

b. Endrin and DDT breakdown were less than 20%.

c. DBC retention time shifts were less than 2% (packed columns).

d. Positive responses for pesticides in the samples fell within the established retention time windows.

e. The analytical sequence was followed.

6. All surrogate recoveries were within control limits for the volatile, BNA and pesticide/PCB analyses.

7. All matrix spike RPDs were in control and all recoveries were in control with the exception of those of Dieldrin in the pesticide fraction, which were high. As the recoveries of dieldrin in the matrix spikes were almost identical, this would indicate a matrix effect for this sample. THe lab had indicated a retention time shift for gamma-BHC in the matrix spike duplicate of this sample due to matrix effects. Matrix spike limits are advisory only.

8. GC/MS confirmation of pesticides in the samples was not done as their concentrations were not high enough.

9. No performance evaluation sample was associated with this set of data.

10. Calculations were checked, and though the lab deviated drastically from the method in the manner in which their extracts were split and in the amount of internal standard used, the calculations were eventually found to be correct.