

RECEIVED
JUN 10 2002

0057268 H1593



EDMC

Lionville Laboratory, Inc.
PEST/PCB ANALYTICAL DATA PACKAGE FOR
TNUHANFORD B02-004 H1593

DATE RECEIVED: 11/13/01

LVL LOT # :0111L331

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B139F4	001	W	01LE1364	11/12/01	11/14/01	12/01/01
B139F4	001 MS	W	01LE1364	11/12/01	11/14/01	12/02/01
B139F4	001 MSD	W	01LE1364	11/12/01	11/14/01	12/02/01

LAB QC:

PBLKWT	MB1	W	01LE1364	N/A	11/14/01	12/02/01
PBLKWT	MB1 BS	W	01LE1364	N/A	11/14/01	12/02/01

*OK R-401
File 12/14/01*



Analytical Report

Client: TNU HANFORD B02-004
LVL#: 0111L331
SDG/SAF#: H1593/B02-004

W.O.#: 11343-606-001-9999-00
Date Received: 11-13-01

PESTICIDE

One (1) water sample was collected on 11-12-01.

The sample and its associated QC samples were extracted on 11-14-01 and analyzed according to Lionville Laboratory OPs based on SW846, 3rd Edition procedures on 12-01,02-01. The extraction procedure was based on method 3520 and the extracts were analyzed based on method 8081.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. The cooler temperature has been recorded on the chain-of-custody.
2. All required holding times for extraction and analysis have been met.
3. The method blank was below the reporting limits for all target compounds.
4. All surrogate recoveries were within acceptance criteria.
5. The blank spike recovery was within acceptance criteria.
6. All matrix spike recoveries were within acceptance criteria.
7. All initial calibrations associated with this data set were within acceptance criteria.
8. All continuing calibration standards analyzed prior to sample extracts were within acceptance criteria, with the exception of target compounds 4,4-DDD and 4,4-DDE analyzed on 12-01-01 at 15:21 and 16:10 on both columns. The data reflected an increase in instrument response, so the ability to identify the spiked compounds was not impaired. A copy of the Sample Discrepancy Report (SDR) has been enclosed.
9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the laboratory Manager or a designee, as verified by the following signature.


Iain Daniels
Deputy Laboratory Manager
Lionville Laboratory Incorporated

12/15/01
Date

pefr:\group\data\pest\11L-331.pes

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 7 pages.

Lionville Laboratory Sample Discrepancy Report (SDR)

SDR #: 01GCS22

Initiator: Mikobal Batch: 01114331 Parameter: 0608X
 Date: 12/4/01 Samples: 001, MS, MSD Matrix: Water
 Client: TNU Method: SW846/MCAWWW/CLPI Prep Batch: 01LE136Y

1. Reason for SDR

a. COC Discrepancy Tech Profile Error Client Request Sampler Error on C-O-C
 Transcription Error Wrong Test Code Other _____

b. General Discrepancy

Missing Sample/Extract* Container Broken Wrong Sample Pulled Label ID's Illegible
 Hold Time Exceeded Insufficient Sample* Preservation Wrong Received Past Hold
 Improper Bottle Type Not Amenable to Analysis

Note*: Verified by [Log-In] or [Prep Group] (circle)...signature/date: _____

c. Problem (Include all relevant specific results; attach data if necessary)
 increased DDD and DDE on both columns prior to samples. Samples clean of targets.

2. Known or Probable Causes(s)

3. Discussion and Proposed Action Other Description: Narrate.

Re-log
 Entire Batch
 Following Samples: _____
 Re-leach
 Re-extract
 Re-digest
 Revise EDD
 Change Test Code to _____
 Place On/Take Off Hold (circle)

4. Project Manager Instructions...signature/date: [Signature] 12/5/01

Concur with Proposed Action
 Disagree with Proposed Action; See Instruction
 Include in Case Narrative
 Client Contacted:
 Date/Person _____
 Add
 Cancel

5. Final Action...signature/date: [Signature] 12/4/01 Other Explanation:

Verified re-[log][leach][extract][digest][analysis] (circle)
 Included in Case Narrative
 Hard Copy COC Revised
 Electronic COC Revised
 EDD Corrections Completed

When Final Action has been recorded, forward original to QA Specialist for distribution and filing.

Route	Distribution of <u>Completed</u> SDR	Route	Distribution of <u>Completed</u> SDR
<input checked="" type="checkbox"/>	X Initiator	<input type="checkbox"/>	Metals: Beegle
<input type="checkbox"/>	X Lab General Manager: M. Taylor	<input type="checkbox"/>	Inorganic: Perrone
<input type="checkbox"/>	X Project Mgr: Stone/Johnson/Haslett	<input type="checkbox"/>	GC/LC: Kiger
<input type="checkbox"/>	X Technical Mgr: Wesson/Daniels	<input type="checkbox"/>	MS: Rychlak/Layman
<input type="checkbox"/>	X QA (file): Alberts	<input type="checkbox"/>	Log-in: Keppel
<input type="checkbox"/>	Data Management: Feldman	<input type="checkbox"/>	Admin: Soos
<input type="checkbox"/>	Sample Prep: Beegle/Kiger	<input type="checkbox"/>	Other: _____



GLOSSARY OF PESTICIDE/PCB DATA

DATA QUALIFIERS

- U** = Indicates that the compound was analyzed for but not detected. The minimum detection limit for the sample (not the method detection limit) is reported with the U (e.g., 10U).
- J** = Indicates an estimated value. This flag is used in cases where a target analyte is detected at a level less than the lower quantification level. If the limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- I** = Interference.

ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spiking solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Indicates that recoveries were not obtained because the extract had to be diluted for analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- SP** = Indicates Spiked Compound.



GLOSSARY OF PESTICIDE/PCB DATA

- P** = This flag is used for an PESTICIDE/PCB target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form 1 and flagged with a "P".
- D** = This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- C** = This flag applies to a compound that has been confirmed by GC/MS.



Custody Transfer Record/Lab Work Request

Page 1 of 1

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Lionville Laboratory Use Only
01116331

Client TNU-HANFORD BO2-004

Est. Final Proj. Sampling Date _____

Project # 11343-606-001-9999-00

Project Contact/Phone # _____

Lionville Laboratory Project Manager OT

QC SPCC Del STD TAT 30 day

Date Rec'd 11-13-01 Date Due 12-13-01

MATRIX CODES:	Lab ID	Client ID/Description	Matrix Chosen (✓)		Date Collected	Time Collected	Lionville Laboratory Use Only							
			MS	MSD			VOA	BNA	Pest	Herb				
S - Soil	<u>001 B139F4</u>		✓		<u>11/20/00</u>	<u>0820</u>								
SE - Sediment														
SO - Solid														
SL - Sludge														
W - Water														
O - Oil														
A - Air														
DS - Drum Solids														
DL - Drum Liquids														
L - EP/TCLP Leachate														
WI - Wipe														
X - Other														
F - Fish														

Special Instructions: SAF # B02-004

DATE/REVISIONS:
0608X 1. 4.4 DDD: 4.4 DDE - 4.4 DDT
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____

Relinquished by FDEK Received by Colt Young Date 11-13-01 Time 0945

Relinquished by COMPOSITE WASTE Received by ORIGINAL Date _____ Time _____

Relinquished by WASTE Received by REWRITTEN Date _____ Time _____

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES: 4235 7954 8898

Lionville Laboratory Use Only

Samples were:
 1) Shipped ✓ or Hand Delivered ✓
 Airbill # DELOY
 2) Ambient or Chilled ✓
 3) Received in Good Condition Y or N
 4) Samples Properly Preserved Y or N
 5) Received Within Holding Times Y or N

Tamper Resistant Seal was:
 1) Present on Outer Package Y or N
 2) Unbroken on Outer Package Y or N
 3) Present on Sample Y or N
 4) Unbroken on Sample Y or N
 COC Record Present Upon Sample Rec't Y or N
 Cooler 2.3 °C
 Temp. 2.3 °C