

0077790  
Part 2 of 2



Mr. Steve Trent  
Fluor Hanford Inc.  
825 Jadwin Ave.  
Richland, WA 99352

**Subject: Contract No. 630  
Analytical Data Package**

Dear Mr. Trent:

Enclosed are the hard copy analytical reports for the batch number/fraction indicated (marked X) in the following table:

LvLI Batch #	0709L947
SDG #	H3579
SAF #	F07-058
Date Received	9/20/07
# Samples	1
Matrix	Water
Volatiles	
Semivolatiles	
Pest/PCB	X
DRO/GRO/KRO	
Herbicides	
GC Alcohol	
Metals	
Inorganics	

The electronic data deliverable (EDD) will be emailed shortly. If you have any questions, please don't hesitate to contact me at (610) 280-3012.

Sincerely,  
Lionville Laboratory Incorporated

Orlette S. Johnson  
Project Manager



r:\group\pm\orlette\tnu-hanford\data\fc\_itr.doc

Lionville Laboratory, Inc.  
PEST/PCB ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD F07-058 H3579

DATE RECEIVED: 09/20/07

LVL LOT # :0709L947

CLIENT ID	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1PLHO	001	W	07LE0533	09/06/07	09/20/07	10/01/07
B1PLHO	001 MS	W	07LE0533	09/06/07	09/20/07	10/01/07
B1PLHO	001 MSD	W	07LE0533	09/06/07	09/20/07	10/01/07

LAB QC:

PBLKGO	MB1	W	07LE0533	N/A	09/20/07	10/01/07
PBLKGO	MB1 BS	W	07LE0533	N/A	09/20/07	10/01/07



00000001



Case Narrative

Client: TNU-HANFORD F07-058  
LVL #: 0709L947  
SDG/SAF # K0946 / F07-058

W.O. #: 11343-606-001-9999-00  
Date Received: 09-20-2007

**CHLORINATED PESTICIDES**

One (1) water samples was collected on 09-06-2007.

The sample and its associated QC samples were extracted on 09-20-2007 and analyzed according to Lionville Laboratory SOPs based on SW846, 3rd Edition procedure on 10-01-2007. The extraction procedure was based on method 3520C and the extracts were analyzed based on method 8081A.

The following is a summary of the QC results accompanying the sample results. Lionville Laboratory Inc (LvLI) certifies that all test results meet the requirements of NELAC except as noted below:

1. The samples were extracted 7 days outside of recommended hold times. The samples were 7 days out of hold when received and were extracted the day they were received.
2. The method blank was below the reporting limits for all target compounds.
3. All surrogate recoveries were within acceptance criteria.
4. All blank spike recoveries were within criteria.
5. All matrix spike recoveries were within acceptance criteria.
6. The initial calibrations associated with this data set were within acceptance criteria.
7. The continuing calibration standards analyzed prior to sample extracts were within acceptance criteria.

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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 8 pages.





## GLOSSARY OF 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.
- .I = Indicates an interference on one analytical column only. Result is reported from remaining analytical column.

### 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.
- NS = Not Spiked.
- SP = Indicates Spiked Compound.
- 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 I 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.
- NPM = No pattern match for multi-component target analytes.





Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-058-013

PAGE 1 OF 1

COLLECTOR

POPE

COMPANY CONTACT

TRENT, SJ

TELEPHONE NO.

373-5869

PROJECT COORDINATOR

TRENT, SJ

PRICE CODE 7N

DATA TURNAROUND

SAMPLING LOCATION

C5515, I-Water

222

PROJECT DESIGNATION

216-A-2 and 216-A-21 Characterization Sampling and Analysis - Groundwat

SAF NO.

F07-058

AIR QUALITY

45 Days / 45 Days

ICE CHEST NO.

ARR. 03 225

FIELD LOGBOOK NO.

COA

122585E510

METHOD OF SHIPMENT

FEDERAL EXPRESS

SHIPPED TO

Lionville Laboratory Incorporated

OFFSITE PROPERTY NO.

See PTR

20298

BILL OF LADING/AIR BILL NO.

See PTR

20298

MATRIX\* POSSIBLE SAMPLE HAZARDS/ REMARKS

A=Air  
DL=Drum  
L=Liquid  
DS=Drum  
S=Solids  
L=Liquid  
O=Oil  
S=Soil  
SE=Sediment  
T=Tissue  
V=Vegetation  
W=Water  
WI=Wipe  
X=Other  
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993) Radiological tie to B1PLF8

PRESERVATION

Cool-4C

TYPE OF CONTAINER

aG

NO. OF CONTAINER(S)

4

VOLUME

1000mL

SAMPLE ANALYSIS

Pesticides - 8081;

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO. MATRIX\*

SAMPLE DATE SAMPLE TIME

B1PLH0 WATER

9-6-07 0825 X

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM DATE/TIME

J.S. POPE / ASH 9-6-07 1500

RECEIVED BY/STORED IN DATE/TIME

over 9-6-07  
M.A. Baechler / M.G. Baechler 9-6-07 1500

RELINQUISHED BY/REMOVED FROM DATE/TIME

110-745 KILL SEP 19 2007 0920

RECEIVED BY/STORED IN DATE/TIME

M.A. Baechler / M.G. Baechler SEP 19 2007 0920

RELINQUISHED BY/REMOVED FROM DATE/TIME

A. Baechler / M.G. Baechler SEP 19 2007 0920

RECEIVED BY/STORED IN DATE/TIME

Lead Ex  
SEP 19 2007 0930

RELINQUISHED BY/REMOVED FROM DATE/TIME

SEP 19 2007 0930

RECEIVED BY/STORED IN DATE/TIME

SEP 19 2007 0930

RELINQUISHED BY/REMOVED FROM DATE/TIME

RELINQUISHED BY/REMOVED FROM DATE/TIME

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RELINQUISHED BY/REMOVED FROM DATE/TIME

RECEIVED BY/STORED IN DATE/TIME

RECEIVED BY/STORED IN DATE/TIME

LABORATORY SECTION

RECEIVED BY

TITLE

DATE/TIME

FINAL SAMPLE DISPOSITION

DISPOSAL METHOD

DISPOSED BY

DATE/TIME

Lionville Laboratory Incorporated  
**SAMPLE RECEIPT CHECKLIST (SRC)**

CLIENT: TNU Hanford  
 Project/SAF/SOW/Release #: F07-058

Date: 9.20.07

LvLI Batch #: 07096947

Sample Custodian: D. Smith

NOTE: EXPLAIN ALL DISCREPANCIES

- |   |  |  |
|---|--|--|
| 1. Samples Hand Delivered or Shipped?   | Center <u>RedEx</u>  | Airbill # <u>7982 6751 3236</u>  |
| 2. Custody Seals on coolers or shipping containers intact, signed & dated?  | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No <span style="margin-left: 100px;"><input type="checkbox"/> No Seals</span>                     |
| 3. Outside of coolers or shipping containers are free from damage?  | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No <span style="margin-left: 100px;">Comments:</span>   |
| 4. All expected paperwork received (coc & other client specific information) sealed in plastic bag and easily accessible?                   | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 5. Samples received <u>cooled</u> or ambient?   | Temp <u>2.0</u> °C   | Cooler # <u>GRP-03-025</u>   |
| How was the temperature taken?  | <input checked="" type="checkbox"/> IR                                 | <input type="checkbox"/> Temp. Blank <span style="margin-left: 20px;"><input type="checkbox"/> Other (Specify):</span>     |
| Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)  | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 6. Custody seals on sample containers intact, signed and dated?   | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No <span style="margin-left: 100px;"><input type="checkbox"/> No Seals</span>                     |
| 7. COC (Client & LvLI) signed & dated?  | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 8. Sample containers are intact?  | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 9. All samples on COC received?   | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| All samples received on COC?  | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 10. All sample label information matches COC?   | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 11. Samples properly preserved? (if #5 is no, then this is no.)   | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 12. Samples received within hold times? Short holds taken to wet lab?   | <input checked="" type="checkbox"/> Yes<br><input type="checkbox"/> No | <input type="checkbox"/> No <span style="margin-left: 100px;"><input checked="" type="checkbox"/> N/A</span>               |
| 13. VOA, TOC, TOX free of headspace?  | <input type="checkbox"/> Yes   | <input type="checkbox"/> No <span style="margin-left: 100px;"><input checked="" type="checkbox"/> N/A</span>               |
| 14. QC stickers placed on bottles designated by client?   | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No <span style="margin-left: 100px;"><input type="checkbox"/> N/A</span>                          |
| 15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.) | <input checked="" type="checkbox"/> Yes                                | <input type="checkbox"/> No  |
| 16. Project Manager contacted concerning any discrepancies?<br>Person Contacted _____   | <input type="checkbox"/> Yes   | <input type="checkbox"/> No <span style="margin-left: 100px;"><input checked="" type="checkbox"/> N/A</span><br>Date _____ |

