LvLI
27 LIONVILLE LABORATORY INC.

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 #	0710L077
SDG #	H3591
SAF #	F07-082
Date Received	11/8/07
# Samples	10
Matrix	SOIL
Volatiles	
Semivolatiles	
Pest/PCB	
DRO/GRO/KRO	
Herbicides	
GC Alcohol	
Metals	
Inorganics	X

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_ltrs.doc

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F07-082 H3591

DATE RECEIVED: 10/22/07 LVL LOT # :0710L077

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1PY65						
TOTAL ORGANIC CARBON	001	W	07LTC024	10/03/07	10/23/07	10/23/07
TOTAL ORGANIC CARBON	001 REP	W	07LTC024	10/03/07	10/23/07	10/23/07
TOTAL ORGANIC CARBON	001 MS	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY66						
TOTAL ORGANIC CARBON	002	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY67						
TOTAL ORGANIC CARBON	003	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY68						
TOTAL ORGANIC CARBON	004	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY69						
TOTAL ORGANIC CARBON	005	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY70						
TOTAL ORGANIC CARBON	006	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY71						
TOTAL ORGANIC CARBON	007	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY72						
TOTAL ORGANIC CARBON	008	W	07LTC024	10/03/07	10/23/07	10/23/07
B1PY73						
TOTAL ORGANIC CARBON	009	W	07LTC024	10/03/07	10/23/07	10/23/07

Lionville Laboratory, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
TNUHANFORD F07-082 H3591

DATE RECEIVED: 10/22/07 LVL LOT # :0710L077

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B1PY74						
TOTAL ORGANIC CARBON	010	W	07LTC024	10/03/07	10/23/07	10/23/07
LAB QC:						
TOTAL ORGANIC CARBON	MB1	W	07LTC024	N/A	10/23/07	10/23/07
TOTAL ORGANIC CARBON	MB1 BS	W	07LTC024	N/A	10/23/07	10/23/07

LIONVILLE LABORATORY INC.

Analytical Report

Client: TNU-HANFORD F07-082 H3591
LVL#: 0710L077

W.O.#: 11343-606-001-9999-00
Date Received: 10-22-07

INORGANIC NARRATIVE

1. This narrative covers the analysis of 10 water samples.

2. The samples were prepared and analyzed in accordance with the method checked on the attached glossary.

   LvLI is NELAP accredited by the State of Pennsylvania. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager. LvLI certifies that all test results meet the requirements of NELAC with any exception noted in the following statements.

3. Sample holding times as required by the method and/or contract were met.

4. The results presented in this report are derived from samples that did not meet LvLI's sample acceptance policy as noted on the Sample Receipt Checklist.

5. The method blank was within the method criteria.

6. The Laboratory Control Sample (LCS) was within the laboratory control limits.

7. The matrix spike recovery was within the 75-125% control limits.

8. The replicate analysis was within the 20% Relative Percent Difference (RPD) control limit.

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 package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels
Laboratory Manager
Lionville Laboratory Incorporated

11/20/07
Date

njp\i10-077

The resnlts presented in this report relate to the analytical testing and conditions of the samples upon 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 21 pages.

Lionville Laboratory Incorporated

WET CHEMISTRY

METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	EPA /600	SW846	OTHER
Acidity	___ 305.1		
___Alkalinity ___Bicarbonate ___Carbonate	___ 310.1		
BOD	___ 405.1		___ 5210B (b)
Ion Chromatography:			
___Bromide ___Chloride ___Fluoride	___ 300.0	___ 9056	
___Nitrate ___Nitrite ___Phosphate	___ 300.0	___ 9056	
___Sulfate ___Formate ___Acetate ___Oxalate	___ 300.0	___ 9056	
Chloride	___ 325.2	___ 9251	
Chorine, Residual	___ 330.5 (mod)		
Cyanide, Amenable to Chlorination	___ 335.2	___ 9010B	
Cyanide, Total	___ 335.2	___ 9010B ___ 9014	___ ILMO4.0 (e)
Cyanide, Weak Acid Dissociable		___	___ 412 (a) ___ 4500CN-I (b)
COD	___ 410.4(mod)		___ 5220C (b)
Color	___ 110.2		
Corrosivity by Coupon		___ 1110(mod)	
Chromium VI		___ 7196A	___ 3500Cr-D (b)
Fluoride	___ 340.2		___ 4500-FC
Hardness, Calcium	___ 215.2		
Hardness, Total	___ 130.2		
Iodide			___ ASTM D19P202 (1)
Surfactant	___ 425.1		
___Nitrate-Nitrite ___Nitrate ___Nitrite	___ 353.2		
Ammonia	___ 350.3		
Total___ Kjeldahl ___ Organic Nitrogen	___ 351.3		
Total ✓ Organic ___ Inorganic Carbon	✓ 415.1	___ 9060	
Oil & Grease	___ 413.1	___ 9070	
___ pH ____ pH; paper	___ 150.1	___ 9040B ___ 9041A	
Petroleum Hydrocarbons, Total Recoverable	___ 418.1		
Phenol	___ 420.1 ___ 420.2	___ 9065 ___ 9066	
___Ortho ___Total Phosphate	___ 365.2		___ 4500-P B ___ C
Salinity			___ 210A (a) ___ 2520 (b)
Settleable Solids	___ 160.5		
Sulfide	___ 376.1	___ 9030B/9034 (acid soluble)	
Reactive ___Cyanide ___Sulfide		___ Section 7.3 (__9014__9030B)	
Silica	___ 370.1		
Sulfite	___ 377.1		
Sulfate	___ 375.4	___ 9038	
Specific Conductance	___ 120.1	___ 9050A	
Specific Gravity			___ D5057-90 ___ 213E (a)
Synthetic Precipitation Leach	___ 1312		
Total ___Dissolved __Suspended ___Solids	160 ___.1 ___.2 ___.3		
Total Organic Halides	___ 450.1	___ 9020B	
Turbidity	___ 180.1		
Volatile Solids:			
__Total __Dissolved __Suspended	___ 160.4		
Other:		**Method:**	

Lionville Laboratory Incorporated

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.

* = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.
MS = Matrix Spike.
MSD = Matrix Spike Duplicate.
REP = Sample Replicate
LC = Laboratory Control Sample.
NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

ANALYTICAL WET CHEMISTRY METHODS

1. ASTM Standard Methods.

2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).

3. Test Methods for Evaluating Solid Waste (USEPA SW-846).

a. Standard Methods for the Examination of Water and Waste, 16 ed, (1983).

b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).

c. Method of Soil Analysis, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).

d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).

e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.

f. Code of Federal Regulations.

Lionville Laboratory, Inc.

INORGANICS DATA SUMMARY REPORT 11/16/07

CLIENT: TNUHANFORD F07-082 H3591 LVL LOT #: 0710L077
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	B1PY65	Total Organic Carbon	0.71	MG/L	0.50	1.0
-002	B1PY66	Total Organic Carbon	0.57	MG/L	0.50	1.0
-003	B1PY67	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-004	B1PY68	Total Organic Carbon	0.73	MG/L	0.50	1.0
-005	B1PY69	Total Organic Carbon	1.4	MG/L	0.50	1.0
-006	B1PY70	Total Organic Carbon	0.60	MG/L	0.50	1.0
-007	B1PY71	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-008	B1PY72	Total Organic Carbon	0.50 u	MG/L	0.50	1.0
-009	B1PY73	Total Organic Carbon	2.2	MG/L	0.50	1.0
-010	B1PY74	Total Organic Carbon	0.50 u	MG/L	0.50	1.0

Lionville Laboratory, Inc.

INORGANICS METHOD BLANK DATA SUMMARY PAGE 11/16/07

CLIENT: TNUHANFORD F07-082 H3591 LVL LOT #: 0710L077
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
BLANK10	07LTC024-MB1	Total Organic Carbon	0.50 u	MG/L	0.50	1.0

Lionville Laboratory, Inc.

INORGANICS ACCURACY REPORT 11/16/07

CLIENT: TNUHANFORD F07-082 H3591 LVL LOT #: 0710L077

WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR(SPK)
-001	B1PY65	Total Organic Carbon	5.4	0.71	5.0	94.6	1.0
BLANK10	07LTC024-MB1	Total Organic Carbon	4.8	0.50u	5.0	96.7	1.0

Lionville Laboratory, Inc.

INORGANICS PRECISION REPORT 11/16/07

CLIENT: TNUHANFORD F07-082 H3591 LVL LOT #: 0710L077
WORK ORDER: 11343-606-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	RPD	DILUTION FACTOR(REP)
-001REP	B1PY65	Total Organic Carbon	0.71	0.65	9.3	1.0

Lionville Laboratory Use Only

07101077

Revision

Custody Transfer Record/Lab Work Request

Page 1 of 1

See SR

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client TNU HANFORD SAF# F07-082

Est. Final Proj. Sampling Date

Project# 11343-606-001-9999-00

Project Contact/Phone#

Lionville Laboratory Project Manager OJohnson

QC SW846 Del STD TAT 7 days

Date Rec'd 10-22-07 Date Due 10-29-07

| | | |

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-061 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ
TELEPHONE NO. 373-5869
PROJECT COORDINATOR WIDRIG, DL
PRICE CODE 1D
DATA TURNAROUND 7 Days / 15 Days

SAMPLING LOCATION
EC -

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water
SAF NO. F07-082
AIR QUALITY

ICE CHEST NO. GRP-05-001

FIELD LOGBOOK NO.
COA 122616ES10
METHOD OF SHIPMENT FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO. See PTR 20443
BILL OF LADING/AIR BILL NO. See PTR 20443

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY76 455 MAB 10/18/07

SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**	**PRESERVATION**	**TYPE OF CONTAINER**	**NO. OF CONTAINER(S)**	**VOLUME**	**SAMPLE ANALYSIS**
				HCl or H2SO4 to pH <2/Cool~4C	G	1	120mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
11PY65	WATER	10/3/07	1659	↓				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R. O. Mahood / R. O. Mahood	10/3/07 2300	M0 745 Refrigerator 1	10/3/07 2300
M0-745 Refrigerator 1	OCT 18 2007 1000	M. A. Baechler	OCT 18 2007 1000
M. A. Baechler	OCT 18 2007 1000	Fed EX	
Fed Ex	10/22/07 0940	[signature]	10-22-07 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

000000011

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-062 PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ
TELEPHONE NO. 373-5869
PROJECT COORDINATOR WIDRIG, DL
PRICE CODE 1D
DATA TURNAROUND 7 Days / 15 Days

SAMPLING LOCATION
EC - Outlet from Sand filter

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water
SAF NO. F07-082
AIR QUALITY [ ]

ICE CHEST NO. GRR-05-001

FIELD LOGBOOK NO.
COA 122616ES10
METHOD OF SHIPMENT FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO. See PTR 20843 (1)
BILL OF LADING/AIR BILL NO. See PTR 20843 (1) MBB 10/18/07

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY56

| | | |

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-063 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ | **TELEPHONE NO.** 373-5869

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D | **DATA TURNAROUND** 7 Days / 15 Days

SAMPLING LOCATION
EC - SP 450

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO. F07-082

AIR QUALITY ( )

ICE CHEST NO. GRP-05-001

FIELD LOGBOOK NO.

COA 122616ES10

METHOD OF SHIPMENT
FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO.
See PTR 20443

BILL OF LADING/AIR BILL NO.
See PTR 20443

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY67 MAB 10/18/07

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	120mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
31PY67	WATER	10/3/07	1717	X

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.D. Mahood / Richard D. Mahood	10/3/07 2300	M0745 Refrigerator 1	10/3/07 2300
M0745 Refrigerator 1	OCT 18 2007 1000	M. A. Baechler	OCT 18 2007 1000
M. A. Baechler	OCT 18 2007 1000		
	10-22-07 0940		10-22-07 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

0000000813

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-064 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ | **TELEPHONE NO.** 373-5869

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D | **DATA TURNAROUND** 7 Days / 15 Days

AIR QUALITY ☐

SAMPLING LOCATION
EC - SP 200

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO. F07-082

ICE CHEST NO. GRP-05-001

FIELD LOGBOOK NO.

COA 122616ES10

METHOD OF SHIPMENT
FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO.
See PTR 2043

BILL OF LADING/AIR BILL NO.
See PTR 2043

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to 31PY68

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	120mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
31PY68	WATER	10/3/07	1807	K

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood	10/3/07 2300	MO 745 Refrigerator 1	10/3/07 2300
MO-745	OCT 18 2007 1000	M. A. Baechler	OCT 18 2007 1000
M. A. Baechler	OCT 18 2007 1000		
	10/22/07 0940		10/22/07 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

00000014

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-065 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

SAMPLING LOCATION
EC - Waste tank

ICE CHEST NO.
GRP-05-001

SHIPPED TO
Lionville Laboratory Incorporated

COMPANY CONTACT TRENT, SJ
TELEPHONE NO. 373-5869

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO. F07-082

FIELD LOGBOOK NO.

COA 122616ES10

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D

AIR QUALITY [ ]

DATA TURNAROUND 7 Days / 15 Days

METHOD OF SHIPMENT FEDERAL EXPRESS

OFFSITE PROPERTY NO. See PTR 20443

BILL OF LADING/AIR BILL NO. See PTR 20443

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY59

SAMPLE NO.	MATRIX*	PRESERVATION	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS	SAMPLE DATE	SAMPLE TIME	
		HCl or H2SO4 to pH <2/Cool~4C	G	1	120mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS			
B1PY69	WATER						10/3/07	1903	X

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood	10/3/07 2300	MO-745 Refrigerator	10/3/07 2300
MO-745	OCT 18 2007 1500	M.A. Baechler	OCT 18 2007 1500
M.A. Baechler	OCT 18 2007 1800	LEX	
FEDEX	10/22/07 0940		10/22/07 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY — TITLE — DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD — DISPOSED BY — DATE/TIME

A-6003-618(01/06)

0000000015

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-066 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ | **TELEPHONE NO.** 373-5869

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D | **DATA TURNAROUND** 7 Days / 15 Days

SAMPLING LOCATION
EC - V403

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO. F07-082

AIR QUALITY ☐

ICE CHEST NO. GRP. 05-001

FIELD LOGBOOK NO.

COA 122616ES10

METHOD OF SHIPMENT FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO. See PTR 20143

BILL OF LADING/AIR BILL NO. See PTR 20143

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY60

SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**	**PRESERVATION**	**TYPE OF CONTAINER**	**NO. OF CONTAINER(S)**	**VOLUME**	**SAMPLE ANALYSIS**
				HCl or H2SO4 to pH <2/Cool~4C	G	1	120mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B1PY70	WATER	10/3/07	~~1803~~ 1831 Rem 10/3/07					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood / Rybu O. Mahood	10/3/07 2300	M0745 Refrigerator 1	10/4/07 2300
M0-745 KEY	OCT 18 2007 1000	M. A. Baechler M.G. Baechler	OCT 18 2007 1000
M. A. Baechler M.G. Baechler	OCT 18 2007 1000	Fed Ex	
Fed Ex	10/22/07 0940	[signature]	10/22/7 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

0000000016

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-067 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ | **TELEPHONE NO.** 373-5869

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D | **DATA TURNAROUND** 7 Days / 15 Days

SAMPLING LOCATION
EC - SP 100

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO. F07-082

AIR QUALITY ☐

ICE CHEST NO. GRP. 05-001

FIELD LOGBOOK NO.

COA 122616ES10

METHOD OF SHIPMENT FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO. See PTR 2043

BILL OF LADING/AIR BILL NO. See PTR 2043

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY61

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C							
TYPE OF CONTAINER	G							
NO. OF CONTAINER(S)	1							
VOLUME	120ml.							
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS							
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**					
B1PY71	WATER	10/3/07	1707	X				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood / R.O. Mahood	10/3/07 2300	MO748 Refrigerator 1	10/3/07 2300
MO-748 #1	OCT 18 2007 1000	M. A. Baechler / M.A. Baechler	OCT 18 2007 1000
M. A. Baechler / M.A. Baechler	OCT 18 2007 1200	Fed Ex	
FedEx	10/22/07 0940		10-22-07 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-068 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ | **TELEPHONE NO.** 373-5869

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D | **DATA TURNAROUND** 7 Days / 15 Days

AIR QUALITY ☐

SAMPLING LOCATION
EC - SP 180

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO. F07-082

ICE CHEST NO. GRP-05-001

FIELD LOGBOOK NO.

COA 122616ES10

METHOD OF SHIPMENT FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO. See PTR 20443

BILL OF LADING/AIR BILL NO. See PTR 20443

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY62

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	PRESERVATION	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
				HCl or H2SO4 to pH <2/Cool~4C	G	1	120mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
B1PY72	WATER	10/3/07	1752	✓				

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood/R.O. Mahood	10/3/07 2300	M0745 Refrigerator A	10/3/07 2300
M0-745 R/A	OCT 18 2007 1000	M.A. Baechler M.A. Baechler	2007 1000
M.A. Baechler M.A. Baechler	OCT 18 2007 1000	LOG EX	
LOG EX	10/22/07 0940	Bill Kennedy	10/22/07 0940
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-069 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ
TELEPHONE NO. 373-5869

PROJECT COORDINATOR WIDRIG, DL
PRICE CODE 1D
DATA TURNAROUND 7 Days / 15 Days
AIR QUALITY ☐

SAMPLING LOCATION
EC - SP1S0

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO.
F07-082

ICE CHEST NO. GRP.05-001

FIELD LOGBOOK NO.

COA
122616E510

METHOD OF SHIPMENT
FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO.
See PTR 20443

BILL OF LADING/AIR BILL NO.
See PTR 20443

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1PY63

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	120mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1PY73	WATER	10/3/07	1715	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
R.O. Mahood/R. Gent O. Mahood	10/3/07 2300	M0745 Refrigerator 5	10/3/07 2300
M0-745 Refrigerator 5	OCT 18 2007 1020	M. A. Baechler	OCT 18 2007 1020
M. A. Baechler	OCT 18 2007 1500		
F. D. Ee	10/22/07 0940	Curt Kennedy	10/22/07 0940

SPECIAL INSTRUCTIONS
(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION
RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION
DISPOSAL METHOD | DISPOSED BY | DATE/TIME

A-6003-618(01/06)

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Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F07-082-070 | PAGE 1 OF 1

COLLECTOR
Mahood/Gent

COMPANY CONTACT TRENT, SJ | **TELEPHONE NO.** 373-5869

PROJECT COORDINATOR WIDRIG, DL

PRICE CODE 1D | **DATA TURNAROUND** 7 Days / 15 Days

AIR QUALITY [ ]

SAMPLING LOCATION
EC - SP40

PROJECT DESIGNATION
Electro-Coagulation at the 100-DR - Water

SAF NO.
F07-082

ICE CHEST NO.
GRP-05-001

FIELD LOGBOOK NO.

COA
122616ES10

METHOD OF SHIPMENT
FEDERAL EXPRESS

SHIPPED TO
Lionville Laboratory Incorporated

OFFSITE PROPERTY NO.
See PTR 20443

BILL OF LADING/AIR BILL NO.
See PTR 20443

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
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)

SPECIAL HANDLING AND/OR STORAGE
Radioactive tie to B1P464

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	G
NO. OF CONTAINER(S)	1
VOLUME	120mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1PY74	WATER	10/3/07	1738	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
L.O. Mahood/Richland Motorpool	10/3/07 2300	M0745 Refrigerator 3	10/3/07 2360
M0745 Refrigerator 3	OCT 18 2007 1000	M.A. Baechler	OCT 18 2007 1000
M.A. Baechler	OCT 18 2007 1000	Ed Ex	
Ed Ex	10/22/07 0940	Ted Neumann	10/24/07 0940

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

(1)TIC - 415.1M {Total Inorganic Carbon} TOC - 415.1 {Total organic carbon}

LABORATORY SECTION RECEIVED BY | TITLE | DATE/TIME

FINAL SAMPLE DISPOSITION DISPOSAL METHOD | DISPOSED BY | DATE/TIME

00000020

Lionville Laboratory Incorporated

SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU HANFORD Date: 10/22/07

Project/SAF/SOW/Release #:

LvLI Batch #: 0710L077 Sample Custodian: Ted Kennedy

NOTE: EXPLAIN ALL DISCREPANCIES

1. Samples Hand Delivered or Shipped?	Carrier: FED Ex		Airbill #: 7925 8293 3309
2. Custody Seals on coolers or shipping containers intact, signed & dated?	☑ Yes	☐ No	☐ No Seals
3. Outside of coolers or shipping containers are free from damage?	☑ Yes	☐ No	Comments:
4. All expected paperwork received (coc & other client specific information) sealed in plastic bag and easily accessible?	☑ Yes	☐ No	
5. Samples received cooled or ambient?	Temp 5-9 °C		Cooler #: GRP-05-001
How was the temperature taken?	☑ IR	☐ Temp. Blank	☐ Other (Specify):
Is the Temp. Criteria met for these samples? (Hg in soils @ 4°C)	☑ Yes	☐ No	
6. Custody seals on sample containers intact, signed and dated?	☑ Yes	☐ No	☐ No Seals
7. COC (Client & LvLI) signed & dated?	☑ Yes	☐ No	
8. Sample containers are intact?	☑ Yes	☐ No	
9. All samples on COC received?	☑ Yes	☐ No	
All samples received on COC?	☑ Yes	☐ No	
10. All sample label information matches COC?	☑ Yes	☐ No	
11. Samples properly preserved? (If #5 is no, then this is no.)	☑ Yes 11-19-07	☑ No	No unpreserved aliquot for TIC determination received
12. Samples received within hold times?	☑ Yes	☐ No	
Short holds taken to wet lab?	☐ Yes	☐ No	☑ N/A
13. VOA, TOC, TOX free of headspace? (TIC)	☐ Yes	☑ No	☐ N/A # 001-00A
14. QC stickers placed on bottles designated by client?	☐ Yes	☐ No	☑ N/A
15. Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles that do not meet the policy, which is on the reverse of this page.)	☑ Yes 11-19-07	☑ No TIC ok 11-19-07	See 11,13
16. Project Manager contacted concerning any discrepancies?	☑ Yes	☐ No	☐ N/A 10/22/07
Person Contacted _____		Date: _____	

LvLI